

Questions 1 to 6 are based on the following information

Article

Weekend Conferences

1       The expenses related to sponsoring a  
2       conference can be immense. An organization  
3       sponsoring a conference can recoup these  
4       expenses through registration fees and  
5       partnership with the host hotel. As part of the  
6       partnership, the host hotel sets aside a block  
7       of rooms for conference attendees, with rooms  
8       available at a slightly higher-than-normal rate.

9       While most conference attendees prefer to  
10      stay in the host hotel, they often follow an  
11      alternate strategy to avoid the extra cost of  
12      reserving a room within the block at the host  
13      hotel. Some attendees reserve rooms outside  
14      the host hotel—the ROHH strategy. Others  
15      reserve rooms outside the block—the ROB  
16      strategy.

17      Conference sponsors have succeeded in  
18      countering these strategies by increasing the  
19      conference registration fee by a fixed amount  
20      and then offering an equivalent registration fee  
21      discount to attendees who book rooms in the  
22      block. A study has shown that if this registration  
23      discount is equal to at least half the potential  
24      savings of an attendee's particular cost-saving  
25      strategy, the attendee is much more likely to  
26      reserve a room within the block.

1        Ten conferences are scheduled for the same  
 2        weekend in City X. For each conference, the  
 3        table lists the conference sponsor, the  
 4        registration fee, the discounted registration fee  
 5        (if any), the host hotel, the rate for rooms in the  
 6        block at the host hotel, and the lowest rate for  
 7        an available room in the host hotel during that  
 8        same weekend. Conference attendees will  
 9        require two nights lodging, and all room rates  
 10      are per guest, per night, assuming two guests  
 11      per room. The lowest rate for an available room  
 12      in City X on this same weekend is \$65.

Sponsor	Registration fee	Discounted registration fee	Host hotel	Block rate	Lowest rate in host hotel
AMG	\$225	\$150	Garden Inn	\$120	\$65
CC	\$720	\$620	Hilton	\$110	\$70
CDA	\$450	\$400	Asiawest Center	\$190	\$185
FFNA	\$325	\$275	Hilton	\$140	\$70
HMHPA	\$600	\$575	Holiday Inn	\$104	\$79
PPOA	\$550	\$400	Hilton	\$105	\$70
PNDA	\$425	\$400	Bard Inn	\$125	\$125
QRTA	\$325	no discount	Asiawest Center	\$195	\$185
RCD	\$995	\$895	Asiawest Center	\$195	\$185
WWLOP	\$475	no discount	Perry Pavilion	\$155	\$155

### Question 1

For each of the following sponsors, select Yes if an attendee of the sponsor's conference would spend less money by employing the ROB strategy—paying the lowest possible room rate in the host hotel and paying the nondiscounted registration fee—than by reserving a room in the block. Otherwise, select No.

	Yes	No	
1A.	<input type="radio"/>	<input checked="" type="radio"/>	CC
1B.	<input checked="" type="radio"/>	<input type="radio"/>	FFNA
1C.	<input type="radio"/>	<input checked="" type="radio"/>	HMHPA

## Question 2

Assume that host hotels receive a reimbursement from the conference organizers for 25% of the block rate per night for each unoccupied room in the conference block. For each of the following hotels, select Yes if, for at least one conference on the weekend listed, the hotel would lose room revenue if a room in the block is vacant because an attendee employed the ROB strategy. Otherwise, select No.

	Yes	No	
2A.	<input type="radio"/>	<input checked="" type="radio"/>	Asiawest Center
2B.	<input checked="" type="radio"/>	<input type="radio"/>	Bard Inn
2C.	<input type="radio"/>	<input checked="" type="radio"/>	Hilton

## Question 3

3. Let  $X$  denote the block rate of the host hotel for a particular conference, and let  $Y$  denote the lowest room rate available in the host hotel outside of the conference block. For a conference that requires a two-night hotel stay, which one of the following expressions represents the least amount of discount on the conference registration fee that, according to the article, would be sufficient to deter conference attendees from employing the ROB strategy in choosing accommodations?

- A.  $\frac{X + Y}{2}$
- B.  $\frac{X - Y}{2}$
- C.  $X - Y$
- D.  $X + Y$
- E.  $2(X - Y)$

## Question 4

For each of the following sponsors, select Yes if an attendee of the sponsor's conference would spend less money by employing the ROHH strategy—paying the lowest possible room rate outside the host hotel and paying the nondiscounted registration fee—than by reserving a room in the block at the host hotel. Otherwise, select No.

	Yes	No	
4A.	<input type="radio"/>	<input checked="" type="radio"/>	CC
4B.	<input checked="" type="radio"/>	<input type="radio"/>	FFNA
4C.	<input type="radio"/>	<input checked="" type="radio"/>	PPOA

### Question 5

Many individuals stand to benefit financially from attendees at conferences. For each of the following individuals, choose *Loss* if the individual would likely earn less money if rooms in the conference block are vacant because of attendees using ROHH strategies. Otherwise select *No loss*.

	Loss	No loss	
5A.	<input type="radio"/>	<input type="radio"/>	Speaker hired by a conference on education to speak about school reform
5B.	<input type="radio"/>	<input type="radio"/>	Room service waiter at the host hotel whose earnings are primarily from gratuities
5C.	<input type="radio"/>	<input type="radio"/>	Salaried front desk manager at the host hotel

### Question 6

6. Assume that all host hotels for the conferences in City X on the weekend indicated have conference block rooms available and that all hotels in City X have rooms available at their lowest rates for the conference weekend. Which one of the following conferences is most likely to have attendees favoring the ROB strategy over the ROHH strategy?

- A. AMG
- B. CDA
- C. QRTA
- D. RCD
- E. WWLOP

## Questions 7 to 9 are based on the following information

Kenyan IPO pricing

Kenyan IPOs, 1994–2008

1      Researchers recently examined the initial  
2      public offering (IPO)—a private firm's first sale  
3      of stock shares to the public—of firms listed on  
4      Kenya's Nairobi Stock Exchange (NSE)  
5      between 1994 and 2008. During this time, the  
6      number of IPOs listed per year varied from  
7      zero to four. The researchers wanted to examine  
8      the extent to which four different  
9      variables—investor sentiment, firm size, board  
10     prestige, and firm age—affect the IPO stock  
11     share price, which is set by the firm. They  
12     hypothesized that all four variables would show  
13     a strong positive correlation with this IPO  
14     asking price. However, after examining the  
15     firms listed, they were surprised to find that  
16     none of the variables showed a strong positive  
17     correlation with IPO pricing, and in fact investor  
18     sentiment and board prestige both showed a  
19     strong negative correlation.

20     The researchers also discovered that nearly  
21     all of these IPOs were underpriced by an average  
22     of 50 percent, which is to say the IPO  
23     share prices were about half of what the share  
24     prices were at the close of that first day of  
25     trading. Such underpricing constitutes a loss to  
26     the listed firm because the firm could have  
27     immediately raised more money with a higher  
28     price. The researchers noted that firms should  
29     take care to set an IPO price low enough to  
30     capture investor interest but high enough to  
31     generate sufficient capital for the firm.

The table lists companies, examined by the researchers, that had their IPO on the NSE between 1994 and 2008, together with the IPO share price, first day closing price, and percent underpricing. Prices are in Kenyan shillings.

Company	IPO year	IPO share price ( $P_0$ )	First day closing price ( $P_1$ )	Percent underpricing*
Co-Operative Bank	2008	9.50	10.45	10.00
Safaricom	2008	5.00	7.35	47.00
Kenya Re	2007	9.50	16.00	68.42
Access Kenya	2007	10.00	13.45	34.50
Eveready	2006	9.50	11.00	15.79
Scangroup	2006	10.45	15.00	43.54
Kengen	2006	11.90	40.00	236.13
Mumias Sugar	2001	6.25	6.25	0.00
Athi River Mining	1997	12.25	12.60	2.86
Kenya Airways	1996	11.25	12.55	11.56
Rea Vipingo	1996	10.50	12.00	14.29
National Bank of Kenya	1994	10.00	26.00	160.00
Firestone East Africa	1994	35.50	35.00	-1.41

\*The percent change from  $P_0$  to  $P_1$

### Question 7

For each of the following statements, select *Inferable* if the statement is reasonably inferable from the information provided about the NSE IPOs. Otherwise select *Not inferable*.

	Inferable	Not inferable	
7A.	<input type="radio"/>	<input checked="" type="radio"/>	IPOs of firms with prestigious boards were more likely to be underpriced than those of other firms.
7B.	<input checked="" type="radio"/>	<input type="radio"/>	Firestone East Africa set its IPO price slightly lower than it should have.
7C.	<input type="radio"/>	<input checked="" type="radio"/>	At least one of the firms examined by the researchers did not have an underpriced IPO.

### Question 8

For each of the following statements, select *Supported* if the statement is supported by the information provided about NSE IPOs. Otherwise select *Not supported*.

	Supported	Not supported	
8A.	<input type="radio"/>	<input type="radio"/>	The board of Safaricom was likely considered more prestigious than that of Co-Operative Bank at the time of their IPOs.
8B.	<input type="radio"/>	<input type="radio"/>	Kenya Re and Eveready were approximately the same size firms at the time of their IPOs.
8C.	<input type="radio"/>	<input type="radio"/>	When their IPO prices were set, investor sentiment was likely more favorable toward Kengen than toward Scangroup or Eveready.

### Question 9

9. The discussion of the researchers' study of Kenyan IPOs refers to "board prestige" primarily to

- A. help explain why investor sentiment toward some firms is sometimes very low
- B. caution that some variables should not be considered accurate predictors of IPO pricing
- C. introduce one of the variables whose relationship to IPO pricing surprised the researchers
- D. point to one of the attributes firms often use to generate investor interest in their IPO
- E. demonstrate that some attributes of a firm are often negatively correlated with the firm's IPO price

Questions 10 to 12 are based on the following information

Sports Association

News Organizations

- 1 Statement by sports association spokes-  
2 person:  
  
3 Our sports association issues contracts to  
4 television networks for the exclusive right to  
5 broadcast our sporting events. For this right,  
6 the networks pay the association substantial  
7 fees, which help finance our leagues. We also  
8 provide free media passes to our events for  
9 journalists so that they can effectively report on  
10 sports news, including final scores. Now, how-  
11 ever, some news organizations are posting  
12 video clips, audio clips, digital photographs,  
13 and live score updates from our events on their  
14 websites. Conditions must be placed on these  
15 practices, which go beyond mere sports news  
16 reporting; they harm the value of our broad-  
  
17 casting contracts and violate our rights as the  
18 owners of the sports leagues. News organiza-  
19 tions that wish to post such information on their  
20 websites should therefore sign contracts with  
21 the sports association that stipulate what post-  
22 ings will be allowed and how much they will  
23 cost. As we have in the past, we will deny  
24 media passes to journalists from news organi-  
25 zations that do not comply with our require-  
26 ments.



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- 1 Statement by news organizations spokesman:  
 2  
 3 The news business has largely shifted from  
 4 print media to the Internet, where readers  
 5 expect text to be accompanied by audio and  
 6 images. To charge news organizations for  
 7 providing online sports coverage or to place  
 8 unnecessary conditions on that coverage is to  
 9 deny news organizations their right to cover  
 10 the news. Online news sites are not asking to  
 11 broadcast sporting events in their entirety, and  
 12 their sports reporting does not detract from the  
 13 value of the sports leagues or their events. On  
 14 the contrary—free, engaging sports reporting  
 15 generates interest in sports and thus benefits  
 16 readers and the sports association alike. News  
 17 organizations must be allowed to report freely  
 18 about sports on their websites, in any time-  
 19 frame, using any type of online medium they  
 20 deem effective.

### Question 10

For each of the following statements, select *Both accept* if, based on the information provided, it can be inferred that both the sports association and the news organizations would likely accept that the statement is true. If not, select *Otherwise*.

	Both accept	Otherwise	
10A.	<input type="radio"/>	<input type="radio"/>	There should be no restrictions on news organizations' sports reporting in broadcast media.
10B.	<input type="radio"/>	<input type="radio"/>	A sporting event can be adequately reported by a news organization without broadcasting the event in its entirety on the organization's website.
10C.	<input type="radio"/>	<input type="radio"/>	Any online activity that substantially increases many people's interest in the sports association's leagues benefits the association.



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## Question 11

For each of the following issues, select *Disagree* if, based on the information provided, it can be inferred that the sports association and the news organizations would hold opposing positions on the issue. Otherwise, select *Cannot infer disagreement*.

	Disagree	Cannot infer disagreement	
11A.	<input type="radio"/>	<input type="radio"/>	The degree to which online sports reporting generates interest in sports
11B.	<input type="radio"/>	<input type="radio"/>	How frequently a website should be able to update scores from a sporting event in progress
11C.	<input type="radio"/>	<input type="radio"/>	The conditions under which a news organization should be allowed access to report on the sports association's events

## Question 12

12. Based on the statements, which one of the following can most reasonably be inferred to be a view held by the news organizations?

- A. Online news consumers have the right to reproduce digital photographs and audio and video clips of sports association events posted on news organizations' websites.
- B. News organizations' ability to cover sports news effectively will be hampered if their use of online audio, video, and images is prohibited.
- C. News organizations have the exclusive right to report on sports news online.
- D. People are less likely to attend sports events if they have access to live score updates online.
- E. The sports association should restrict how audio and video clips of its sports events can be disseminated.



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Questions 13 to 18 are based on the following information

Height-for-age standards

Weight-for-height standards

1 The World Health Organization (WHO) has  
 2 produced a comprehensive set of growth stan-  
 3 dards for children. These standards are based  
 4 on studies of children living in 6 nations on 5  
 5 continents under optimal conditions with  
 6 respect to health and nutrition. The table dis-  
 7 plays the percentile distribution of height, in  
 8 centimeters, at 3-month intervals, for boys  
 9 ages 2 through 5 according to the WHO model.  
 10 In a *model population*—a large population of  
 11 boys ages 2 through 5 that conforms to the  
 12 WHO growth standards—for  $n = 3, 15, 50, 85,$   
 13 and 97, the  $n$ th percentile in height for a given  
 14 age is the unique height among boys of that  
 15 age that is greater than or equal to  $n$  percent,  
 16 and less than or equal to  $(100 - n)$  percent, of  
 17 heights of boys of that age.

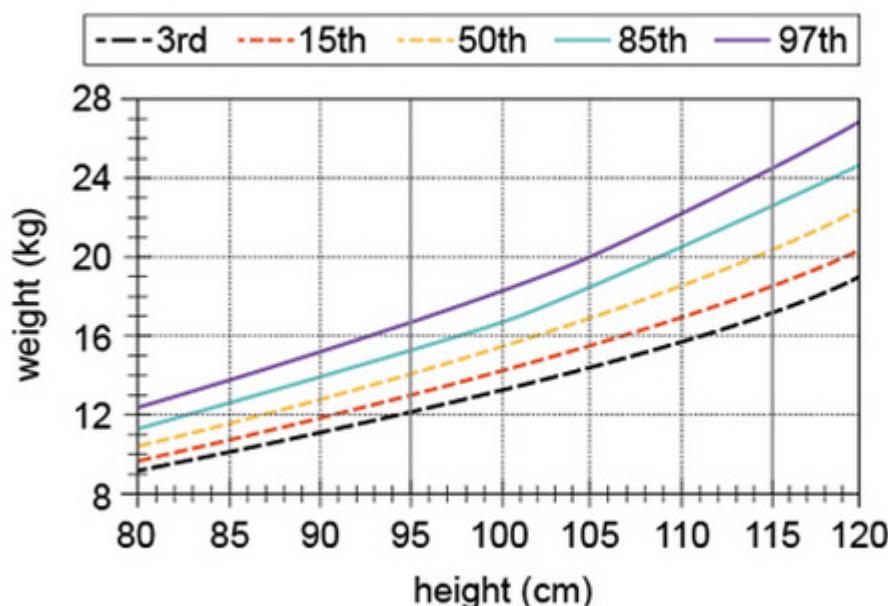
Age (year: month)	Height in centimeters, by percentile				
	3rd	15th	50th	85th	97th
2:0	81.4	83.9	87.1	90.3	92.9
2:3	83.5	86.3	89.6	93.0	95.7
2:6	85.5	88.4	91.9	95.5	98.3
2:9	87.4	90.4	94.1	97.8	100.8
3:0	89.1	92.2	96.1	99.9	103.1
3:3	90.8	94.0	98.0	102.0	105.2
3:6	92.4	95.7	99.9	104.0	107.3
3:9	93.9	97.4	101.6	105.8	109.3
4:0	95.4	99.0	103.3	107.7	111.2
4:3	96.9	100.5	105.0	109.5	113.1
4:6	98.4	102.1	106.7	111.2	115.0
4:9	99.8	103.6	108.3	113.0	116.8
5:0	101.2	105.2	110.0	114.8	118.7



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1 The graph shows the percentile distribution of  
2 weight, in kilograms, for heights from 80 cm to  
3 120 cm, for boys ages 2 through 5, according  
4 to the WHO model. In a model population, for  
5  $n = 3, 15, 50, 85$ , and  $97$ , the  $n$ th percentile in  
6 weight for a given height is the unique weight  
7 among boys of that height that is greater than  
8 or equal to  $n$  percent, and less than or equal to  
9  $(100 - n)$  percent, of weights of boys of that  
10 age.

### Weight Percentiles for Height for Boys 2–5 Years



### Question 13

B is a boy aged 4 years 3 months whose height is 110 cm and whose weight is 19 kg. For each of the following statements, select Yes if, based on the given information, it must be true of B relative to a model population. Otherwise, select No.

	Yes	No	
13A.	<input type="radio"/>	<input checked="" type="radio"/>	Approximately 50% of boys at the same weight are shorter than B.
13B.	<input type="radio"/>	<input checked="" type="radio"/>	No more than 15% of boys at this age are taller than B.
13C.	<input type="radio"/>	<input checked="" type="radio"/>	B's height is greater than or equal to that of 50% of boys aged 5 years 0 months.

### Question 14

For each of the following statements, select Yes if the statement must be true of a boy selected at random from a model population. Otherwise, select No.

	Yes	No	
14A.	<input type="radio"/>	<input checked="" type="radio"/>	If his age is greater than 3 years 3 months, the probability that his height is at least 98.0 cm is greater than 50%.
14B.	<input type="radio"/>	<input checked="" type="radio"/>	If he is at least 105 cm tall, the probability that his weight is 14.0 kg is no greater than 3%.
14C.	<input type="radio"/>	<input checked="" type="radio"/>	If he is 114 cm tall, he is taller than at least 85% of boys his age.

### Question 15

15. Consider an individual boy from a model population. Suppose that from age 2 through age 5, this boy's weight is at the 50th percentile for his height and his height is at the 50th percentile for his age. Which one of the following statements must be true of the boy at age 5 years 0 months?

- A. His age is at the 50th percentile for his height.
- B. His weight is at the 50th percentile for his age.
- C. His height is at the 50th percentile for his weight.
- D. His weight is approximately 150% of his weight at age 2 years 0 months.
- E. His weight is approximately 200% of his weight at age 2 years 0 months.



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### Question 16

B is a boy aged 4 years 3 months whose height is 110 cm and whose weight is 19 kg. For each of the following statements, select Yes if, based on the given information, it must be true of B relative to a model population. Otherwise, select No.

	Yes	No	
16A.	<input type="radio"/>	<input checked="" type="radio"/>	At least 15% of boys at the same height have a weight that is less than or equal to that of B.
16B.	<input type="radio"/>	<input checked="" type="radio"/>	At least 80% of boys at this age have heights within 10% of B's height.
16C.	<input type="radio"/>	<input checked="" type="radio"/>	B's height is less than that of at most 3% of boys at age 4 years 0 months.

### Question 17

For each of the following statements, select Yes if the statement must be true of a boy selected at random from a model population. Otherwise, select No.

	Yes	No	
17A.	<input type="radio"/>	<input checked="" type="radio"/>	If his age is exactly 4 years 0 months, the probability that his height is at exactly 99.0 cm is 15%.
17B.	<input type="radio"/>	<input checked="" type="radio"/>	If he is 81 cm tall, he is shorter than at least 95% of boys his age.
17C.	<input type="radio"/>	<input checked="" type="radio"/>	If he is 120 cm tall, he weighs more than 97% of boys age 2 years 6 months.

### Question 18

18. Consider an individual boy from a model population. Suppose that from age 2 through age 5, this boy's weight is at the 97th percentile for his height and his height is at the 97th percentile for his age. Which one of the following statements must be true of the boy at age 5 years 0 months?

- A. His age is at the 97th percentile for his height.
- B. His weight is at the 97th percentile for his age.
- C. His height is at the 97th percentile for his weight.
- D. His weight is approximately 166% of his weight at age 2 years 0 months.
- E. His weight is approximately 197% of his weight at age 2 years 0 months.



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**Question 19 is based on the following information**

The table lists minimum temperature, maximum temperature, and weather conditions reported in 30 cities on 6 continents on February 19, 2011.

**Sort By:** City



City	Continent	Minimum temperature (°C)	Maximum temperature (°C)	Weather conditions
Atlanta	North America	11	21	cloudy
Auckland	Oceania	18	25	cloudy
Bangkok	Asia	26	34	cloudy
Beijing	Asia	-3	10	fine
Berlin	Europe	-4	-1	cloudy
Buenos Aires	South America	20	29	rain
Cairo	Africa	14	24	fine
Chicago	North America	-4	3	cloudy
Dublin	Europe	5	11	bright
Frankfurt	Europe	1	7	cloudy
Houston	North America	16	24	cloudy
Johannesburg	Africa	16	26	thunderstorms
Kuala Lumpur	Asia	24	33	rain
London	Europe	5	10	rain
Los Angeles	North America	10	15	showers
Madrid	Europe	5	12	rain
Manila	Asia	22	32	thunderstorms
Mexico City	North America	7	25	fine
Montréal	North America	-6	-4	bright
Mumbai	Asia	21	30	fine
New York	North America	2	3	snow
Paris	Europe	5	7	rain
Rio de Janeiro	South America	21	38	cloudy
Santiago	South America	11	29	fine
Seoul	Asia	-3	9	cloudy
Sydney	Oceania	25	29	showers
Tehran	Asia	3	11	haze
Tokyo	Asia	3	9	fine
Toronto	North America	-6	-2	cloudy
Vancouver	North America	-2	5	fine



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Sort By: Continer ▼

City	Continent	Minimum temperature (°C)	Maximum temperature (°C)	Weather conditions
Cairo	Africa	14	24	fine
Johannesburg	Africa	16	26	thunderstorms
Bangkok	Asia	26	34	cloudy
Beijing	Asia	-3	10	fine
Kuala Lumpur	Asia	24	33	rain
Manila	Asia	22	32	thunderstorms
Mumbai	Asia	21	30	fine
Seoul	Asia	-3	9	cloudy
Tehran	Asia	3	11	haze
Tokyo	Asia	3	9	fine
Berlin	Europe	-4	-1	cloudy
Dublin	Europe	5	11	bright
Frankfurt	Europe	1	7	cloudy
London	Europe	5	10	rain
Madrid	Europe	5	12	rain
Paris	Europe	5	7	rain
Atlanta	North America	11	21	cloudy
Chicago	North America	-4	3	cloudy
Houston	North America	16	24	cloudy
Los Angeles	North America	10	15	showers
Mexico City	North America	7	25	fine
Montréal	North America	-6	-4	bright
New York	North America	2	3	snow
Toronto	North America	-6	-2	cloudy
Vancouver	North America	-2	5	fine
Auckland	Oceania	18	25	cloudy
Sydney	Oceania	25	29	showers
Buenos Aires	South America	20	29	rain
Rio de Janeiro	South America	21	38	cloudy
Santiago	South America	11	29	fine



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Sort By: Minimum ▼

City	Continent	Minimum temperature (°C)	Maximum temperature (°C)	Weather conditions
Montréal	North America	-6	-4	bright
Toronto	North America	-6	-2	cloudy
Berlin	Europe	-4	-1	cloudy
Chicago	North America	-4	3	cloudy
Beijing	Asia	-3	10	fine
Seoul	Asia	-3	9	cloudy
Vancouver	North America	-2	5	fine
Frankfurt	Europe	1	7	cloudy
New York	North America	2	3	snow
Tehran	Asia	3	11	haze
Tokyo	Asia	3	9	fine
Dublin	Europe	5	11	bright
London	Europe	5	10	rain
Madrid	Europe	5	12	rain
Paris	Europe	5	7	rain
Mexico City	North America	7	25	fine
Los Angeles	North America	10	15	showers
Atlanta	North America	11	21	cloudy
Santiago	South America	11	29	fine
Cairo	Africa	14	24	fine
Johannesburg	Africa	16	26	thunderstorms
Houston	North America	16	24	cloudy
Auckland	Oceania	18	25	cloudy
Buenos Aires	South America	20	29	rain
Mumbai	Asia	21	30	fine
Rio de Janeiro	South America	21	38	cloudy
Manila	Asia	22	32	thunderstorms
Kuala Lumpur	Asia	24	33	rain
Sydney	Oceania	25	29	showers
Bangkok	Asia	26	34	cloudy



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Sort By: Maximur ▼

City	Continent	Minimum temperature (°C)	Maximum temperature (°C)	Weather conditions
Montréal	North America	-6	-4	bright
Toronto	North America	-6	-2	cloudy
Berlin	Europe	-4	-1	cloudy
Chicago	North America	-4	3	cloudy
New York	North America	2	3	snow
Vancouver	North America	-2	5	fine
Frankfurt	Europe	1	7	cloudy
Paris	Europe	5	7	rain
Seoul	Asia	-3	9	cloudy
Tokyo	Asia	3	9	fine
Beijing	Asia	-3	10	fine
London	Europe	5	10	rain
Tehran	Asia	3	11	haze
Dublin	Europe	5	11	bright
Madrid	Europe	5	12	rain
Los Angeles	North America	10	15	showers
Atlanta	North America	11	21	cloudy
Cairo	Africa	14	24	fine
Houston	North America	16	24	cloudy
Mexico City	North America	7	25	fine
Auckland	Oceania	18	25	cloudy
Johannesburg	Africa	16	26	thunderstorms
Santiago	South America	11	29	fine
Buenos Aires	South America	20	29	rain
Sydney	Oceania	25	29	showers
Mumbai	Asia	21	30	fine
Manila	Asia	22	32	thunderstorms
Kuala Lumpur	Asia	24	33	rain
Bangkok	Asia	26	34	cloudy
Rio de Janeiro	South America	21	38	cloudy



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Sort By: Weather ▼

City	Continent	Minimum temperature (°C)	Maximum temperature (°C)	Weather conditions
Montréal	North America	-6	-4	bright
Dublin	Europe	5	11	bright
Toronto	North America	-6	-2	cloudy
Berlin	Europe	-4	-1	cloudy
Chicago	North America	-4	3	cloudy
Frankfurt	Europe	1	7	cloudy
Seoul	Asia	-3	9	cloudy
Atlanta	North America	11	21	cloudy
Houston	North America	16	24	cloudy
Auckland	Oceania	18	25	cloudy
Bangkok	Asia	26	34	cloudy
Rio de Janeiro	South America	21	38	cloudy
Vancouver	North America	-2	5	fine
Tokyo	Asia	3	9	fine
Beijing	Asia	-3	10	fine
Cairo	Africa	14	24	fine
Mexico City	North America	7	25	fine
Santiago	South America	11	29	fine
Mumbai	Asia	21	30	fine
Tehran	Asia	3	11	haze
Paris	Europe	5	7	rain
London	Europe	5	10	rain
Madrid	Europe	5	12	rain
Buenos Aires	South America	20	29	rain
Kuala Lumpur	Asia	24	33	rain
Los Angeles	North America	10	15	showers
Sydney	Oceania	25	29	showers
New York	North America	2	3	snow
Johannesburg	Africa	16	26	thunderstorms
Manila	Asia	22	32	thunderstorms

### Question 19

For each of the following statements, select Yes if the statement is true based solely on the information reported for these cities on this day. Otherwise select No.

	Yes	No	
19A.	<input type="radio"/>	<input checked="" type="radio"/>	The mean maximum temperature for the cities in South America was greater than that for the cities in Oceania.
19B.	<input type="radio"/>	<input checked="" type="radio"/>	At least one city reporting fine weather had a maximum temperature less than 0°C.
19C.	<input type="radio"/>	<input checked="" type="radio"/>	For the Asian cities, the median minimum temperature was 12°C.



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## Question 20 is based on the following information

During a recent semester at University X, 25 students enrolled in an economics class. Each student was enrolled in the university's 4-year business program and took the course either as a traditional student (attending class and sitting for exams in person) or as an online student (listening to lectures and taking exams via computer), but not both. For each student, the table indicates whether he or she took the course online, along with his or her year in the program and scores on Exam 1, Exam 2, and the final exam. The final score was computed as a weighted mean of the scores on Exam 1, Exam 2, and the final exam, using the same weights for each student.

Sort By: Student surname

Student surname	Online student? (Y/N)	Year in program	Exam 1 score	Exam 2 score	Final exam score	Final score
Abusuba	Y	2	89	87	85	86.50
Ardanin	N	1	85	83	84	84.00
Bar-Yaacov	Y	1	65	70	68	67.75
Benson	Y	1	77	80	75	76.75
Dedeoglu	N	2	90	96	95	94.00
Derezinski	Y	3	85	84	82	83.25
Garcia	Y	2	90	87	86	87.25
Hernandez	N	2	72	74	75	74.00
Jeyaretnam	Y	2	77	76	78	77.25
Lindt	Y	3	87	82	81	82.75
Mladek	N	4	64	75	76	72.75
Nguyen	N	3	70	74	72	72.00
Orlando	N	2	82	84	80	81.50
Pai	N	2	75	78	72	74.25
Parasarathy	N	2	88	91	95	92.25
Radzinsky	Y	3	91	95	100	96.50
Russell	N	4	51	69	72	66.00
Sweets	N	2	66	76	74	72.50
Sykes	N	3	51	69	73	66.50
Tachau	N	2	91	93	92	92.00
Tsosie	N	2	84	87	85	85.25
Underhill	N	1	77	75	71	73.50
Vladimirov	Y	3	69	75	74	73.00
Washburn	N	2	85	83	82	83.00
Zervos	N	2	95	97	98	97.00



Sort By: Online student? (Y/N) ▾

Student surname	Online student? (Y/N)	Year in program	Exam 1 score	Exam 2 score	Final exam score	Final score
Abusuba	Y	2	89	87	85	86.50
Bar-Yaacov	Y	1	65	70	68	67.75
Benson	Y	1	77	80	75	76.75
Derezinski	Y	3	85	84	82	83.25
Garcia	Y	2	90	87	86	87.25
Jeyaretnam	Y	2	77	76	78	77.25
Lindt	Y	3	87	82	81	82.75
Radzinsky	Y	3	91	95	100	96.50
Vladimirov	Y	3	69	75	74	73.00
Ardanin	N	1	85	83	84	84.00
Dedeoglu	N	2	90	96	95	94.00
Hernandez	N	2	72	74	75	74.00
Mladek	N	4	64	75	76	72.75
Nguyen	N	3	70	74	72	72.00
Orlando	N	2	82	84	80	81.50
Pai	N	2	75	78	72	74.25
Parasarathy	N	2	88	91	95	92.25
Russell	N	4	51	69	72	66.00
Sweets	N	2	66	76	74	72.50
Sykes	N	3	51	69	73	66.50
Tachau	N	2	91	93	92	92.00
Tsosie	N	2	84	87	85	85.25
Underhill	N	1	77	75	71	73.50
Washburn	N	2	85	83	82	83.00
Zervos	N	2	95	97	98	97.00

Sort By: Year in program ▾

Student surname	Online student? (Y/N)	Year in program	Exam 1 score	Exam 2 score	Final exam score	Final score
Bar-Yaacov	Y	1	65	70	68	67.75
Benson	Y	1	77	80	75	76.75
Ardanin	N	1	85	83	84	84.00
Underhill	N	1	77	75	71	73.50
Abusuba	Y	2	89	87	85	86.50
Garcia	Y	2	90	87	86	87.25
Jeyaretnam	Y	2	77	76	78	77.25
Dedeoglu	N	2	90	96	95	94.00
Hernandez	N	2	72	74	75	74.00
Orlando	N	2	82	84	80	81.50
Pai	N	2	75	78	72	74.25
Parasarathy	N	2	88	91	95	92.25
Sweets	N	2	66	76	74	72.50
Tachau	N	2	91	93	92	92.00
Tsosie	N	2	84	87	85	85.25
Washburn	N	2	85	83	82	83.00
Zervos	N	2	95	97	98	97.00
Derezinski	Y	3	85	84	82	83.25
Lindt	Y	3	87	82	81	82.75
Radzinsky	Y	3	91	95	100	96.50
Vladimirov	Y	3	69	75	74	73.00
Nguyen	N	3	70	74	72	72.00
Sykes	N	3	51	69	73	66.50
Mladek	N	4	64	75	76	72.75
Russell	N	4	51	69	72	66.00



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Sort By: Exam 1 score ▼

Student surname	Online student? (Y/N)	Year in program	Exam 1 score	Exam 2 score	Final exam score	Final score
Sykes	N	3	51	69	73	66.50
Russell	N	4	51	69	72	66.00
Mladek	N	4	64	75	76	72.75
Bar-Yaacov	Y	1	65	70	68	67.75
Sweets	N	2	66	76	74	72.50
Vladimirov	Y	3	69	75	74	73.00
Nguyen	N	3	70	74	72	72.00
Hernandez	N	2	72	74	75	74.00
Pai	N	2	75	78	72	74.25
Benson	Y	1	77	80	75	76.75
Underhill	N	1	77	75	71	73.50
Jeyaretnam	Y	2	77	76	78	77.25
Orlando	N	2	82	84	80	81.50
Tsosie	N	2	84	87	85	85.25
Ardanin	N	1	85	83	84	84.00
Washburn	N	2	85	83	82	83.00
Derezinski	Y	3	85	84	82	83.25
Lindt	Y	3	87	82	81	82.75
Parasarathy	N	2	88	91	95	92.25
Abusuba	Y	2	89	87	85	86.50
Garcia	Y	2	90	87	86	87.25
Dedeoglu	N	2	90	96	95	94.00
Tachau	N	2	91	93	92	92.00
Radzinsky	Y	3	91	95	100	96.50
Zervos	N	2	95	97	98	97.00

Sort By: Exam 2 score ▼

Student surname	Online student? (Y/N)	Year in program	Exam 1 score	Exam 2 score	Final exam score	Final score
Sykes	N	3	51	69	73	66.50
Russell	N	4	51	69	72	66.00
Bar-Yaacov	Y	1	65	70	68	67.75
Nguyen	N	3	70	74	72	72.00
Hernandez	N	2	72	74	75	74.00
Mladek	N	4	64	75	76	72.75
Vladimirov	Y	3	69	75	74	73.00
Underhill	N	1	77	75	71	73.50
Sweets	N	2	66	76	74	72.50
Jeyaretnam	Y	2	77	76	78	77.25
Pai	N	2	75	78	72	74.25
Benson	Y	1	77	80	75	76.75
Lindt	Y	3	87	82	81	82.75
Ardanin	N	1	85	83	84	84.00
Washburn	N	2	85	83	82	83.00
Orlando	N	2	82	84	80	81.50
Derezinski	Y	3	85	84	82	83.25
Tsosie	N	2	84	87	85	85.25
Abusuba	Y	2	89	87	85	86.50
Garcia	Y	2	90	87	86	87.25
Parasarathy	N	2	88	91	95	92.25
Tachau	N	2	91	93	92	92.00
Radzinsky	Y	3	91	95	100	96.50
Dedeoglu	N	2	90	96	95	94.00
Zervos	N	2	95	97	98	97.00



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Sort By: Final exam score ▾

Student surname	Online student? (Y/N)	Year in program	Exam 1 score	Exam 2 score	Final exam score	Final score
Bar-Yaacov	Y	1	65	70	68	67.75
Underhill	N	1	77	75	71	73.50
Russell	N	4	51	69	72	66.00
Nguyen	N	3	70	74	72	72.00
Pai	N	2	75	78	72	74.25
Sykes	N	3	51	69	73	66.50
Sweets	N	2	66	76	74	72.50
Vladimirov	Y	3	69	75	74	73.00
Hernandez	N	2	72	74	75	74.00
Benson	Y	1	77	80	75	76.75
Mladek	N	4	64	75	76	72.75
Jeyaretnam	Y	2	77	76	78	77.25
Orlando	N	2	82	84	80	81.50
Lindt	Y	3	87	82	81	82.75
Washburn	N	2	85	83	82	83.00
Derezinski	Y	3	85	84	82	83.25
Ardanin	N	1	85	83	84	84.00
Tsosie	N	2	84	87	85	85.25
Abusuba	Y	2	89	87	85	86.50
Garcia	Y	2	90	87	86	87.25
Tachau	N	2	91	93	92	92.00
Parasarathy	N	2	88	91	95	92.25
Dedeoglu	N	2	90	96	95	94.00
Zervos	N	2	95	97	98	97.00
Radzinsky	Y	3	91	95	100	96.50

Sort By: Final score ▾

Student surname	Online student? (Y/N)	Year in program	Exam 1 score	Exam 2 score	Final exam score	Final score
Russell	N	4	51	69	72	66.00
Sykes	N	3	51	69	73	66.50
Bar-Yaacov	Y	1	65	70	68	67.75
Nguyen	N	3	70	74	72	72.00
Sweets	N	2	66	76	74	72.50
Mladek	N	4	64	75	76	72.75
Vladimirov	Y	3	69	75	74	73.00
Underhill	N	1	77	75	71	73.50
Hernandez	N	2	72	74	75	74.00
Pai	N	2	75	78	72	74.25
Benson	Y	1	77	80	75	76.75
Jeyaretnam	Y	2	77	76	78	77.25
Orlando	N	2	82	84	80	81.50
Lindt	Y	3	87	82	81	82.75
Washburn	N	2	85	83	82	83.00
Derezinski	Y	3	85	84	82	83.25
Ardanin	N	1	85	83	84	84.00
Tsosie	N	2	84	87	85	85.25
Abusuba	Y	2	89	87	85	86.50
Garcia	Y	2	90	87	86	87.25
Tachau	N	2	91	93	92	92.00
Parasarathy	N	2	88	91	95	92.25
Dedeoglu	N	2	90	96	95	94.00
Radzinsky	Y	3	91	95	100	96.50
Zervos	N	2	95	97	98	97.00



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## Question 20

For each of the following statements, select Yes if the statement is true based on the information provided; otherwise select No.

	Yes	No	
20A.	<input type="radio"/>	<input checked="" type="radio"/>	The score on the final exam had equal weight with the score on Exam 2 in computing the final score.
20B.	<input checked="" type="radio"/>	<input type="radio"/>	The median final score for all 25 students was 81.50.
20C.	<input type="radio"/>	<input checked="" type="radio"/>	For Exam 1 scores for students in year 3 of the program, the range was 40.



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**Question 21 is based on the following information**

Anthropologists collected data about cultural patterns and norms for several small indigenous populations in various countries. The table displays data collected about the economic base; residential patterns (residence); degree of market integration (mean MI)—defined as the percentage of calories obtained in the marketplace; percentage of population participating in world religions (mean WR); and average community size (mean CS).

**Sort By:** Population ▾

Population	Location	Economic base	Residence	Mean MI	Mean WR	Mean CS
Au	Papua New Guinea	horticulture, foraging	sedentary	1	100	309
Dolgan/NG	Siberia	hunting, fishing, and wage work	semisedentary	63	59	612
Gusii	Kenya	farming and wage work	sedentary	28	100	4,063
Hadza	Tanzania	foraging	nomadic	0	0	43
Isanga Village	Tanzania	farming and wage work	sedentary	70	99	1,500
Maragoli	Kenya	farming and wage work	sedentary	43	100	3,843
Orma	Kenya	herding livestock	seminomadic	72	100	125
Samburu	Kenya	herding livestock	seminomadic	69	66	2,000
Sanquianga	Colombia	fisheries	sedentary	82	84	1,931
Shuar	Ecuador	horticulture	sedentary	22	76	498
Sursurunga	Papua New Guinea	horticulture	sedentary	24	100	186
Tsimane	Bolivia	horticulture, foraging	seminomadic	7	100	314
Yasawa	Fiji	horticulture, marine foraging	sedentary	21	100	109

**Sort By:** Location ▾

Population	Location	Economic base	Residence	Mean MI	Mean WR	Mean CS
Tsimane	Bolivia	horticulture, foraging	seminomadic	7	100	314
Sanquianga	Colombia	fisheries	sedentary	82	84	1,931
Shuar	Ecuador	horticulture	sedentary	22	76	498
Yasawa	Fiji	horticulture, marine foraging	sedentary	21	100	109
Gusii	Kenya	farming and wage work	sedentary	28	100	4,063
Maragoli	Kenya	farming and wage work	sedentary	43	100	3,843
Orma	Kenya	herding livestock	seminomadic	72	100	125
Samburu	Kenya	herding livestock	seminomadic	69	66	2,000
Au	Papua New Guinea	horticulture, foraging	sedentary	1	100	309
Sursurunga	Papua New Guinea	horticulture	sedentary	24	100	186
Dolgan/NG	Siberia	hunting, fishing, and wage work	semisedentary	63	59	612
Hadza	Tanzania	foraging	nomadic	0	0	43
Isanga Village	Tanzania	farming and wage work	sedentary	70	99	1,500



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Sort By: Economic base ▾

Population	Location	Economic base	Residence	Mean MI	Mean WR	Mean CS
Gusii	Kenya	farming and wage work	sedentary	28	100	4,063
Maragoli	Kenya	farming and wage work	sedentary	43	100	3,843
Isanga Village	Tanzania	farming and wage work	sedentary	70	99	1,500
Sanquianga	Colombia	fisheries	sedentary	82	84	1,931
Hadza	Tanzania	foraging	nomadic	0	0	43
Orma	Kenya	herding livestock	seminomadic	72	100	125
Samburu	Kenya	herding livestock	seminomadic	69	66	2,000
Shuar	Ecuador	horticulture	sedentary	22	76	498
Sursurunga	Papua New Guinea	horticulture	sedentary	24	100	186
Tsimane	Bolivia	horticulture, foraging	seminomadic	7	100	314
Au	Papua New Guinea	horticulture, foraging	sedentary	1	100	309
Yasawa	Fiji	horticulture, marine foraging	sedentary	21	100	109
Dolgan/NG	Siberia	hunting, fishing, and wage work	semisedentary	63	59	612

Sort By: Residence ▾

Population	Location	Economic base	Residence	Mean MI	Mean WR	Mean CS
Hadza	Tanzania	foraging	nomadic	0	0	43
Sanquianga	Colombia	fisheries	sedentary	82	84	1,931
Shuar	Ecuador	horticulture	sedentary	22	76	498
Yasawa	Fiji	horticulture, marine foraging	sedentary	21	100	109
Gusii	Kenya	farming and wage work	sedentary	28	100	4,063
Maragoli	Kenya	farming and wage work	sedentary	43	100	3,843
Sursurunga	Papua New Guinea	horticulture	sedentary	24	100	186
Au	Papua New Guinea	horticulture, foraging	sedentary	1	100	309
Isanga Village	Tanzania	farming and wage work	sedentary	70	99	1,500
Tsimane	Bolivia	horticulture, foraging	seminomadic	7	100	314
Orma	Kenya	herding livestock	seminomadic	72	100	125
Samburu	Kenya	herding livestock	seminomadic	69	66	2,000
Dolgan/NG	Siberia	hunting, fishing, and wage work	semisedentary	63	59	612



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Sort By: Mean MI ▾

Population	Location	Economic base	Residence	Mean MI	Mean WR	Mean CS
Hadza	Tanzania	foraging	nomadic	0	0	43
Au	Papua New Guinea	horticulture, foraging	sedentary	1	100	309
Tsimane	Bolivia	horticulture, foraging	seminomadic	7	100	314
Yasawa	Fiji	horticulture, marine foraging	sedentary	21	100	109
Shuar	Ecuador	horticulture	sedentary	22	76	498
Sursurunga	Papua New Guinea	horticulture	sedentary	24	100	186
Gusii	Kenya	farming and wage work	sedentary	28	100	4,063
Maragoli	Kenya	farming and wage work	sedentary	43	100	3,843
Dolgan/NG	Siberia	hunting, fishing, and wage work	semisedentary	63	59	612
Samburu	Kenya	herding livestock	seminomadic	69	66	2,000
Isanga Village	Tanzania	farming and wage work	sedentary	70	99	1,500
Orma	Kenya	herding livestock	seminomadic	72	100	125
Sanquianga	Colombia	fisheries	sedentary	82	84	1,931

Sort By: Mean WR ▾

Population	Location	Economic base	Residence	Mean MI	Mean WR	Mean CS
Hadza	Tanzania	foraging	nomadic	0	0	43
Dolgan/NG	Siberia	hunting, fishing, and wage work	semisedentary	63	59	612
Samburu	Kenya	herding livestock	seminomadic	69	66	2,000
Shuar	Ecuador	horticulture	sedentary	22	76	498
Sanquianga	Colombia	fisheries	sedentary	82	84	1,931
Isanga Village	Tanzania	farming and wage work	sedentary	70	99	1,500
Au	Papua New Guinea	horticulture, foraging	sedentary	1	100	309
Tsimane	Bolivia	horticulture, foraging	seminomadic	7	100	314
Yasawa	Fiji	horticulture, marine foraging	sedentary	21	100	109
Sursurunga	Papua New Guinea	horticulture	sedentary	24	100	186
Gusii	Kenya	farming and wage work	sedentary	28	100	4,063
Maragoli	Kenya	farming and wage work	sedentary	43	100	3,843
Orma	Kenya	herding livestock	seminomadic	72	100	125



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Sort By: Mean CS



Population	Location	Economic base	Residence	Mean MI	Mean WR	Mean CS
Hadza	Tanzania	foraging	nomadic	0	0	43
Yasawa	Fiji	horticulture, marine foraging	sedentary	21	100	109
Orma	Kenya	herding livestock	seminomadic	72	100	125
Sursurunga	Papua New Guinea	horticulture	sedentary	24	100	186
Au	Papua New Guinea	horticulture, foraging	sedentary	1	100	309
Tsimane	Bolivia	horticulture, foraging	seminomadic	7	100	314
Shuar	Ecuador	horticulture	sedentary	22	76	498
Dolgan/NG	Siberia	hunting, fishing, and wage work	semisedentary	63	59	612
Isanga Village	Tanzania	farming and wage work	sedentary	70	99	1,500
Sanquianga	Colombia	fisheries	sedentary	82	84	1,931
Samburu	Kenya	herding livestock	seminomadic	69	66	2,000
Maragoli	Kenya	farming and wage work	sedentary	43	100	3,843
Gusii	Kenya	farming and wage work	sedentary	28	100	4,063

### Question 21

For each of the following statements about these indigenous populations, select Yes if the statement accurately reflects the data provided in the table. Otherwise, select No.

	Yes	No	
21A.	<input type="radio"/>	<input checked="" type="radio"/>	The populations that forage have the lowest market integration ratings.
21B.	<input checked="" type="radio"/>	<input type="radio"/>	Each of the populations that depend on both farming and wage work is sedentary and has a mean community size among the five largest.
21C.	<input type="radio"/>	<input checked="" type="radio"/>	The range for market integration is less than the range for participation in world religions.



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**Question 22 is based on the following information**

The table displays nutrition data per 240 mL serving for selected cooked or uncooked vegetables: percent water, energy in kilocalories (kcal), protein, total fat, carbohydrate, and total fiber, in grams (g). Each serving consists of 240 mL of finely chopped, raw vegetables (uncooked) or 240 mL of thoroughly drained, steamed vegetables (cooked).

**Sort By:** Vegetable

Vegetable	Cooked (yes/no)	Percent water	Energy (kcal)	Protein (g)	Total fat (g)	Carbohydrate (g)	Total fiber (g)
Asparagus	yes	92	43	5	1	8	2.9
Beets	yes	87	75	3	trace	17	3.4
Broccoli	yes	91	44	5	1	8	4.5
Broccoli	no	91	25	3	trace	5	2.6
Carrots	yes	87	70	2	trace	16	5.1
Carrots	no	88	47	1	trace	11	3.3
Corn	yes	77	131	5	1	32	3.9
Green beans	yes	89	44	2	trace	10	4.0
Mustard greens	yes	94	21	3	trace	3	2.8
Pak choi	yes	96	20	3	trace	3	2.7
Spinach	yes	91	41	5	trace	7	4.3
Spinach	no	92	7	1	trace	1	0.8
Summer squash	yes	94	36	2	1	8	2.5
Summer squash	no	94	23	1	trace	5	2.1
Sweet green pepper	no	92	40	1	trace	10	2.7

**Sort By:** Cooked (yes/no)

Vegetable	Cooked (yes/no)	Percent water	Energy (kcal)	Protein (g)	Total fat (g)	Carbohydrate (g)	Total fiber (g)
Broccoli	no	91	25	3	trace	5	2.6
Carrots	no	88	47	1	trace	11	3.3
Spinach	no	92	7	1	trace	1	0.8
Summer squash	no	94	23	1	trace	5	2.1
Sweet green pepper	no	92	40	1	trace	10	2.7
Asparagus	yes	92	43	5	1	8	2.9
Beets	yes	87	75	3	trace	17	3.4
Broccoli	yes	91	44	5	1	8	4.5
Carrots	yes	87	70	2	trace	16	5.1
Corn	yes	77	131	5	1	32	3.9
Green beans	yes	89	44	2	trace	10	4.0
Mustard greens	yes	94	21	3	trace	3	2.8
Pak choi	yes	96	20	3	trace	3	2.7
Spinach	yes	91	41	5	trace	7	4.3
Summer squash	yes	94	36	2	1	8	2.5



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Sort By: Percent water ▾

Vegetable	Cooked (yes/no)	Percent water	Energy (kcal)	Protein (g)	Total fat (g)	Carbohydrate (g)	Total fiber (g)
Corn	yes	77	131	5	1	32	3.9
Beets	yes	87	75	3	trace	17	3.4
Carrots	yes	87	70	2	trace	16	5.1
Carrots	no	88	47	1	trace	11	3.3
Green beans	yes	89	44	2	trace	10	4.0
Broccoli	no	91	25	3	trace	5	2.6
Broccoli	yes	91	44	5	1	8	4.5
Spinach	yes	91	41	5	trace	7	4.3
Spinach	no	92	7	1	trace	1	0.8
Sweet green pepper	no	92	40	1	trace	10	2.7
Asparagus	yes	92	43	5	1	8	2.9
Summer squash	no	94	23	1	trace	5	2.1
Mustard greens	yes	94	21	3	trace	3	2.8
Summer squash	yes	94	36	2	1	8	2.5
Pak choi	yes	96	20	3	trace	3	2.7

Sort By: Energy (kcal) ▾

Vegetable	Cooked (yes/no)	Percent water	Energy (kcal)	Protein (g)	Total fat (g)	Carbohydrate (g)	Total fiber (g)
Spinach	no	92	7	1	trace	1	0.8
Pak choi	yes	96	20	3	trace	3	2.7
Mustard greens	yes	94	21	3	trace	3	2.8
Summer squash	no	94	23	1	trace	5	2.1
Broccoli	no	91	25	3	trace	5	2.6
Summer squash	yes	94	36	2	1	8	2.5
Sweet green pepper	no	92	40	1	trace	10	2.7
Spinach	yes	91	41	5	trace	7	4.3
Asparagus	yes	92	43	5	1	8	2.9
Green beans	yes	89	44	2	trace	10	4.0
Broccoli	yes	91	44	5	1	8	4.5
Carrots	no	88	47	1	trace	11	3.3
Carrots	yes	87	70	2	trace	16	5.1
Beets	yes	87	75	3	trace	17	3.4
Corn	yes	77	131	5	1	32	3.9



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Sort By: Protein (g) ▾

Vegetable	Cooked (yes/no)	Percent water	Energy (kcal)	Protein (g)	Total fat (g)	Carbohydrate (g)	Total fiber (g)
Spinach	no	92	7	1	trace	1	0.8
Summer squash	no	94	23	1	trace	5	2.1
Sweet green pepper	no	92	40	1	trace	10	2.7
Carrots	no	88	47	1	trace	11	3.3
Summer squash	yes	94	36	2	1	8	2.5
Green beans	yes	89	44	2	trace	10	4.0
Carrots	yes	87	70	2	trace	16	5.1
Pak choi	yes	96	20	3	trace	3	2.7
Mustard greens	yes	94	21	3	trace	3	2.8
Broccoli	no	91	25	3	trace	5	2.6
Beets	yes	87	75	3	trace	17	3.4
Spinach	yes	91	41	5	trace	7	4.3
Asparagus	yes	92	43	5	1	8	2.9
Broccoli	yes	91	44	5	1	8	4.5
Corn	yes	77	131	5	1	32	3.9

Sort By: Total fat (g) ▾

Vegetable	Cooked (yes/no)	Percent water	Energy (kcal)	Protein (g)	Total fat (g)	Carbohydrate (g)	Total fiber (g)
Summer squash	yes	94	36	2	1	8	2.5
Asparagus	yes	92	43	5	1	8	2.9
Broccoli	yes	91	44	5	1	8	4.5
Corn	yes	77	131	5	1	32	3.9
Spinach	no	92	7	1	trace	1	0.8
Summer squash	no	94	23	1	trace	5	2.1
Sweet green pepper	no	92	40	1	trace	10	2.7
Carrots	no	88	47	1	trace	11	3.3
Green beans	yes	89	44	2	trace	10	4.0
Carrots	yes	87	70	2	trace	16	5.1
Pak choi	yes	96	20	3	trace	3	2.7
Mustard greens	yes	94	21	3	trace	3	2.8
Broccoli	no	91	25	3	trace	5	2.6
Beets	yes	87	75	3	trace	17	3.4
Spinach	yes	91	41	5	trace	7	4.3



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Sort By: Carbohydrate (g) ▾

Vegetable	Cooked (yes/no)	Percent water	Energy (kcal)	Protein (g)	Total fat (g)	Carbohydrate (g)	Total fiber (g)
Spinach	no	92	7	1	trace	1	0.8
Pak choi	yes	96	20	3	trace	3	2.7
Mustard greens	yes	94	21	3	trace	3	2.8
Summer squash	no	94	23	1	trace	5	2.1
Broccoli	no	91	25	3	trace	5	2.6
Spinach	yes	91	41	5	trace	7	4.3
Summer squash	yes	94	36	2	1	8	2.5
Asparagus	yes	92	43	5	1	8	2.9
Broccoli	yes	91	44	5	1	8	4.5
Sweet green pepper	no	92	40	1	trace	10	2.7
Green beans	yes	89	44	2	trace	10	4.0
Carrots	no	88	47	1	trace	11	3.3
Carrots	yes	87	70	2	trace	16	5.1
Beets	yes	87	75	3	trace	17	3.4
Corn	yes	77	131	5	1	32	3.9

Sort By: Total fiber (g) ▾

Vegetable	Cooked (yes/no)	Percent water	Energy (kcal)	Protein (g)	Total fat (g)	Carbohydrate (g)	Total fiber (g)
Spinach	no	92	7	1	trace	1	0.8
Summer squash	no	94	23	1	trace	5	2.1
Summer squash	yes	94	36	2	1	8	2.5
Broccoli	no	91	25	3	trace	5	2.6
Pak choi	yes	96	20	3	trace	3	2.7
Sweet green pepper	no	92	40	1	trace	10	2.7
Mustard greens	yes	94	21	3	trace	3	2.8
Asparagus	yes	92	43	5	1	8	2.9
Carrots	no	88	47	1	trace	11	3.3
Beets	yes	87	75	3	trace	17	3.4
Corn	yes	77	131	5	1	32	3.9
Green beans	yes	89	44	2	trace	10	4.0
Spinach	yes	91	41	5	trace	7	4.3
Broccoli	yes	91	44	5	1	8	4.5
Carrots	yes	87	70	2	trace	16	5.1



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### Question 23

For each of the following statements, select Yes if the statement is true based on the information provided; otherwise select No.

	Yes	No	
22A.	<input type="radio"/>	<input checked="" type="radio"/>	The median amount of protein for all uncooked vegetables listed is $\frac{1}{3}$ the median amount of protein for all cooked vegetables listed.
22B.	<input type="radio"/>	<input checked="" type="radio"/>	The amount of carbohydrate per serving of cooked corn is exactly 3 times the median amount of carbohydrate per serving for the other 14 vegetable options listed.
22C.	<input type="radio"/>	<input checked="" type="radio"/>	Each serving listed for which total fiber is less than 3.0 g also has at most 10 g of carbohydrate.



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## Question 24 is based on the following information

The table shows the top 15 universities in a recent international ranking of programs in physics and astronomy. Each university was assigned a score on a 100-point scale in each of several categories, from which a total score on a 100-point scale was computed. For each university the table displays the total score, together with the scores in 3 categories: *academic*, based on evaluation by academics at other universities; *employer*, based on evaluation by companies that recruit university graduates; and *citations*, based on the frequency with which faculty research is cited.

Sort By: Rank ▾

Rank	University	Country	Academic score	Employer score	Citations score	Total score
1	University of Cambridge	United Kingdom	100.0	100.0	41.3	82.4
2	Harvard University	United States	91.6	78.0	53.8	77.5
3	University of Oxford	United Kingdom	91.6	75.7	39.9	72.9
4	Massachusetts Institute of Technology (MIT)	United States	97.4	61.2	39.5	72.8
5	University of California, Berkley (UCB)	United States	90.8	48.5	45.2	68.7
6	Stanford University	United States	81.7	38.4	53.0	64.4
7	California Institute of Technology (Caltech)	United States	81.5	40.7	39.2	60.7
8	Imperial College London	United Kingdom	70.2	63.8	33.2	57.8
9	Princeton University	United States	76.4	30.3	44.1	57.5
10	ETH Zürich (Swiss Federal Institute of Technology)	Switzerland	69.6	42.2	46.9	57.3
11	University of Tokyo	Japan	79.7	34.6	22.7	53.6
12	University of Chicago	United States	57.1	34.4	53.3	51.4
13	University of California, Los Angeles (UCLA)	United States	55.9	51.3	43.0	51.1
14	University of Melbourne	Australia	46.6	41.5	64.4	50.9
15	Columbia University	United States	46.2	44.0	61.9	50.5

Sort By: University ▾

Rank	University	Country	Academic score	Employer score	Citations score	Total score
7	California Institute of Technology (Caltech)	United States	81.5	40.7	39.2	60.7
15	Columbia University	United States	46.2	44.0	61.9	50.5
10	ETH Zürich (Swiss Federal Institute of Technology)	Switzerland	69.6	42.2	46.9	57.3
2	Harvard University	United States	91.6	78.0	53.8	77.5
8	Imperial College London	United Kingdom	70.2	63.8	33.2	57.8
4	Massachusetts Institute of Technology (MIT)	United States	97.4	61.2	39.5	72.8
9	Princeton University	United States	76.4	30.3	44.1	57.5
6	Stanford University	United States	81.7	38.4	53.0	64.4
5	University of California, Berkley (UCB)	United States	90.8	48.5	45.2	68.7
13	University of California, Los Angeles (UCLA)	United States	55.9	51.3	43.0	51.1
1	University of Cambridge	United Kingdom	100.0	100.0	41.3	82.4
12	University of Chicago	United States	57.1	34.4	53.3	51.4
14	University of Melbourne	Australia	46.6	41.5	64.4	50.9
3	University of Oxford	United Kingdom	91.6	75.7	39.9	72.9
11	University of Tokyo	Japan	79.7	34.6	22.7	53.6



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Sort By: Country ▾

Rank	University	Country	Academic score	Employer score	Citations score	Total score
14	University of Melbourne	Australia	46.6	41.5	64.4	50.9
11	University of Tokyo	Japan	79.7	34.6	22.7	53.6
10	ETH Zürich (Swiss Federal Institute of Technology)	Switzerland	69.6	42.2	46.9	57.3
8	Imperial College London	United Kingdom	70.2	63.8	33.2	57.8
1	University of Cambridge	United Kingdom	100.0	100.0	41.3	82.4
3	University of Oxford	United Kingdom	91.6	75.7	39.9	72.9
7	California Institute of Technology (Caltech)	United States	81.5	40.7	39.2	60.7
15	Columbia University	United States	46.2	44.0	61.9	50.5
2	Harvard University	United States	91.6	78.0	53.8	77.5
4	Massachusetts Institute of Technology (MIT)	United States	97.4	61.2	39.5	72.8
9	Princeton University	United States	76.4	30.3	44.1	57.5
6	Stanford University	United States	81.7	38.4	53.0	64.4
5	University of California, Berkley (UCB)	United States	90.8	48.5	45.2	68.7
13	University of California, Los Angeles (UCLA)	United States	55.9	51.3	43.0	51.1
12	University of Chicago	United States	57.1	34.4	53.3	51.4

Sort By: Academic score ▾

Rank	University	Country	Academic score	Employer score	Citations score	Total score
15	Columbia University	United States	46.2	44.0	61.9	50.5
14	University of Melbourne	Australia	46.6	41.5	64.4	50.9
13	University of California, Los Angeles (UCLA)	United States	55.9	51.3	43.0	51.1
12	University of Chicago	United States	57.1	34.4	53.3	51.4
10	ETH Zürich (Swiss Federal Institute of Technology)	Switzerland	69.6	42.2	46.9	57.3
8	Imperial College London	United Kingdom	70.2	63.8	33.2	57.8
9	Princeton University	United States	76.4	30.3	44.1	57.5
11	University of Tokyo	Japan	79.7	34.6	22.7	53.6
7	California Institute of Technology (Caltech)	United States	81.5	40.7	39.2	60.7
6	Stanford University	United States	81.7	38.4	53.0	64.4
5	University of California, Berkley (UCB)	United States	90.8	48.5	45.2	68.7
3	University of Oxford	United Kingdom	91.6	75.7	39.9	72.9
2	Harvard University	United States	91.6	78.0	53.8	77.5
4	Massachusetts Institute of Technology (MIT)	United States	97.4	61.2	39.5	72.8
1	University of Cambridge	United Kingdom	100.0	100.0	41.3	82.4



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Sort By: Employer score ▼

Rank	University	Country	Academic score	Employer score	Citations score	Total score
9	Princeton University	United States	76.4	30.3	44.1	57.5
12	University of Chicago	United States	57.1	34.4	53.3	51.4
11	University of Tokyo	Japan	79.7	34.6	22.7	53.6
6	Stanford University	United States	81.7	38.4	53.0	64.4
7	California Institute of Technology (Caltech)	United States	81.5	40.7	39.2	60.7
14	University of Melbourne	Australia	46.6	41.5	64.4	50.9
10	ETH Zürich (Swiss Federal Institute of Technology)	Switzerland	69.6	42.2	46.9	57.3
15	Columbia University	United States	46.2	44.0	61.9	50.5
5	University of California, Berkley (UCB)	United States	90.8	48.5	45.2	68.7
13	University of California, Los Angeles (UCLA)	United States	55.9	51.3	43.0	51.1
4	Massachusetts Institute of Technology (MIT)	United States	97.4	61.2	39.5	72.8
8	Imperial College London	United Kingdom	70.2	63.8	33.2	57.8
3	University of Oxford	United Kingdom	91.6	75.7	39.9	72.9
2	Harvard University	United States	91.6	78.0	53.8	77.5
1	University of Cambridge	United Kingdom	100.0	100.0	41.3	82.4

Sort By: Citations score ▼

Rank	University	Country	Academic score	Employer score	Citations score	Total score
11	University of Tokyo	Japan	79.7	34.6	22.7	53.6
8	Imperial College London	United Kingdom	70.2	63.8	33.2	57.8
7	California Institute of Technology (Caltech)	United States	81.5	40.7	39.2	60.7
4	Massachusetts Institute of Technology (MIT)	United States	97.4	61.2	39.5	72.8
3	University of Oxford	United Kingdom	91.6	75.7	39.9	72.9
1	University of Cambridge	United Kingdom	100.0	100.0	41.3	82.4
13	University of California, Los Angeles (UCLA)	United States	55.9	51.3	43.0	51.1
9	Princeton University	United States	76.4	30.3	44.1	57.5
5	University of California, Berkley (UCB)	United States	90.8	48.5	45.2	68.7
10	ETH Zürich (Swiss Federal Institute of Technology)	Switzerland	69.6	42.2	46.9	57.3
6	Stanford University	United States	81.7	38.4	53.0	64.4
12	University of Chicago	United States	57.1	34.4	53.3	51.4
2	Harvard University	United States	91.6	78.0	53.8	77.5
15	Columbia University	United States	46.2	44.0	61.9	50.5
14	University of Melbourne	Australia	46.6	41.5	64.4	50.9



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Sort By: Total score ▾

Rank	University	Country	Academic score	Employer score	Citations score	Total score
15	Columbia University	United States	46.2	44.0	61.9	50.5
14	University of Melbourne	Australia	46.6	41.5	64.4	50.9
13	University of California, Los Angeles (UCLA)	United States	55.9	51.3	43.0	51.1
12	University of Chicago	United States	57.1	34.4	53.3	51.4
11	University of Tokyo	Japan	79.7	34.6	22.7	53.6
10	ETH Zürich (Swiss Federal Institute of Technology)	Switzerland	69.6	42.2	46.9	57.3
9	Princeton University	United States	76.4	30.3	44.1	57.5
8	Imperial College London	United Kingdom	70.2	63.8	33.2	57.8
7	California Institute of Technology (Caltech)	United States	81.5	40.7	39.2	60.7
6	Stanford University	United States	81.7	38.4	53.0	64.4
5	University of California, Berkley (UCB)	United States	90.8	48.5	45.2	68.7
4	Massachusetts Institute of Technology (MIT)	United States	97.4	61.2	39.5	72.8
3	University of Oxford	United Kingdom	91.6	75.7	39.9	72.9
2	Harvard University	United States	91.6	78.0	53.8	77.5
1	University of Cambridge	United Kingdom	100.0	100.0	41.3	82.4

### Question 23

For each of the following statements, select Yes if the statement is true based on the information provided; otherwise select No.

	Yes	No	
23A.	<input type="radio"/>	<input checked="" type="radio"/>	For each of the United States universities listed, the employer score is less than the total score.
23B.	<input type="radio"/>	<input checked="" type="radio"/>	For only one university listed, the employer score and the citations score are both greater than 50.
23C.	<input type="radio"/>	<input checked="" type="radio"/>	University of Tokyo is the university for which the magnitude of the difference between the academic score and the total score is greatest.



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## Question 24 is based on the following information

The table lists data on the 22 earthquakes of magnitude 7 or greater on the Richter Scale during a recent year. Times are given in hours, minutes, and seconds on the 24-hour Greenwich Mean Time (GMT) clock and correspond to standard time at Greenwich, United Kingdom (UK). Latitude, measured in degrees, is 0 at the equator, increases from 0 to 90 proceeding northward to the North Pole, and decreases from 0 to -90 proceeding southward to the South Pole. Longitude, also measured in degrees, is 0 at Greenwich, UK, increases from 0 to 180 from west to east in the Eastern Hemisphere, and decreases from 0 to -180 from east to west in the Western Hemisphere.

Sort By: Date



Date	Time (GMT)	Magnitude	Depth (km)	Latitude	Longitude
3 January	22:36:28	7.1	25	-8.799	157.346
12 January	21:53:10	7.0	13	18.443	-72.571
26 February	20:31:27	7.0	25	25.930	128.425
27 February	06:34:12	8.8	23	-36.122	-72.898
4 April	22:40:43	7.2	4	32.297	-115.278
6 April	22:15:02	7.8	31	2.383	97.048
9 May	05:59:42	7.2	38	3.748	96.018
27 May	17:14:47	7.1	31	-13.698	166.643
12 June	19:26:50	7.5	35	7.881	91.936
16 June	03:16:28	7.0	18	-2.174	136.543
18 July	13:34:59	7.3	35	-5.931	150.590
23 July	22:08:11	7.3	607	6.718	123.409
23 July	22:51:12	7.6	586	6.486	123.467
23 July	23:15:10	7.4	641	6.776	123.259
4 August	22:01:44	7.0	44	-5.746	150.765
10 August	05:23:45	7.3	25	-17.541	168.069
12 August	11:54:16	7.1	207	-1.266	-77.306
3 September	16:35:48	7.0	12	-43.522	171.830
29 September	17:11:26	7.0	26	-4.963	133.760
25 October	14:42:22	7.8	20	-3.487	100.082
21 December	17:19:41	7.4	14	26.901	143.698
25 December	13:16:37	7.3	16	-19.702	167.947



**Sort By:** Time (GMT) ▾

Date	Time (GMT)	Magnitude	Depth (km)	Latitude	Longitude
16 June	03:16:28	7.0	18	-2.174	136.543
10 August	05:23:45	7.3	25	-17.541	168.069
9 May	05:59:42	7.2	38	3.748	96.018
27 February	06:34:12	8.8	23	-36.122	-72.898
12 August	11:54:16	7.1	207	-1.266	-77.306
25 December	13:16:37	7.3	16	-19.702	167.947
18 July	13:34:59	7.3	35	-5.931	150.590
25 October	14:42:22	7.8	20	-3.487	100.082
3 September	16:35:48	7.0	12	-43.522	171.830
29 September	17:11:26	7.0	26	-4.963	133.760
27 May	17:14:47	7.1	31	-13.698	166.643
21 December	17:19:41	7.4	14	26.901	143.698
12 June	19:26:50	7.5	35	7.881	91.936
26 February	20:31:27	7.0	25	25.930	128.425
12 January	21:53:10	7.0	13	18.443	-72.571
4 August	22:01:44	7.0	44	-5.746	150.765
23 July	22:08:11	7.3	607	6.718	123.409
6 April	22:15:02	7.8	31	2.383	97.048
3 January	22:36:28	7.1	25	-8.799	157.346
4 April	22:40:43	7.2	4	32.297	-115.278
23 July	22:51:12	7.6	586	6.486	123.467
23 July	23:15:10	7.4	641	6.776	123.259

**Sort By:** Magnitude ▾

Date	Time (GMT)	Magnitude	Depth (km)	Latitude	Longitude
12 January	21:53:10	7.0	13	18.443	-72.571
26 February	20:31:27	7.0	25	25.930	128.425
16 June	03:16:28	7.0	18	-2.174	136.543
4 August	22:01:44	7.0	44	-5.746	150.765
3 September	16:35:48	7.0	12	-43.522	171.830
29 September	17:11:26	7.0	26	-4.963	133.760
3 January	22:36:28	7.1	25	-8.799	157.346
27 May	17:14:47	7.1	31	-13.698	166.643
12 August	11:54:16	7.1	207	-1.266	-77.306
4 April	22:40:43	7.2	4	32.297	-115.278
9 May	05:59:42	7.2	38	3.748	96.018
18 July	13:34:59	7.3	35	-5.931	150.590
23 July	22:08:11	7.3	607	6.718	123.409
10 August	05:23:45	7.3	25	-17.541	168.069
25 December	13:16:37	7.3	16	-19.702	167.947
23 July	23:15:10	7.4	641	6.776	123.259
21 December	17:19:41	7.4	14	26.901	143.698
12 June	19:26:50	7.5	35	7.881	91.936
23 July	22:51:12	7.6	586	6.486	123.467
6 April	22:15:02	7.8	31	2.383	97.048
25 October	14:42:22	7.8	20	-3.487	100.082
27 February	06:34:12	8.8	23	-36.122	-72.898



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**Sort By:** Depth (km) ▾

Date	Time (GMT)	Magnitude	Depth (km)	Latitude	Longitude
4 April	22:40:43	7.2	4	32.297	-115.278
3 September	16:35:48	7.0	12	-43.522	171.830
12 January	21:53:10	7.0	13	18.443	-72.571
21 December	17:19:41	7.4	14	26.901	143.698
25 December	13:16:37	7.3	16	-19.702	167.947
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**Sort By:** Latitude ▾

Date	Time (GMT)	Magnitude	Depth (km)	Latitude	Longitude
3 September	16:35:48	7.0	12	-43.522	171.830
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Sort By: Longitude ▾

Date	Time (GMT)	Magnitude	Depth (km)	Latitude	Longitude
4 April	22:40:43	7.2	4	32.297	-115.278
12 August	11:54:16	7.1	207	-1.266	-77.306
27 February	06:34:12	8.8	23	-36.122	-72.898
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23 July	22:51:12	7.6	586	6.486	123.467
26 February	20:31:27	7.0	25	25.930	128.425
29 September	17:11:26	7.0	26	-4.963	133.760
16 June	03:16:28	7.0	18	-2.174	136.543
21 December	17:19:41	7.4	14	26.901	143.698
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10 August	05:23:45	7.3	25	-17.541	168.069
3 September	16:35:48	7.0	12	-43.522	171.830

## Question 24

For each of the following statements, select Yes if the statement is true based on the information provided; otherwise select No.

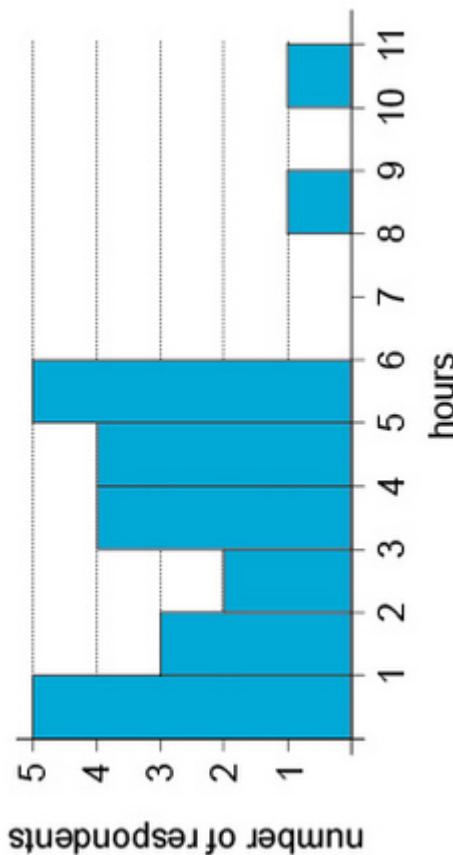
	Yes	No	
24A.	<input type="radio"/>	<input checked="" type="radio"/>	For the 22 earthquakes, the arithmetic mean of the depths is greater than the median of the depths.
24B.	<input checked="" type="radio"/>	<input type="radio"/>	More than half of the 22 earthquakes occurred north of the equator.
24C.	<input checked="" type="radio"/>	<input type="radio"/>	Exactly half of the earthquakes listed occurred between 10:00:00 and 20:00:00 GMT.



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Question 25 is based on the following information

Total Number of Hours of Exercise for Week



Twenty-five adults reported the amount of time each spent exercising during a particular week. The results are summarized in the graph as follows: 5 respondents reported exercising for less than 1 hour, 3 respondents reported exercising for at least 1 hour but less than 2, and so on.

Based on the given information, use the drop-down menus to most accurately complete the following statements.

Question 25

25A. The least possible value for the mean of the numbers of hours of exercise reported for the week is

Select... ▾

3
3.12
3.48
3.98

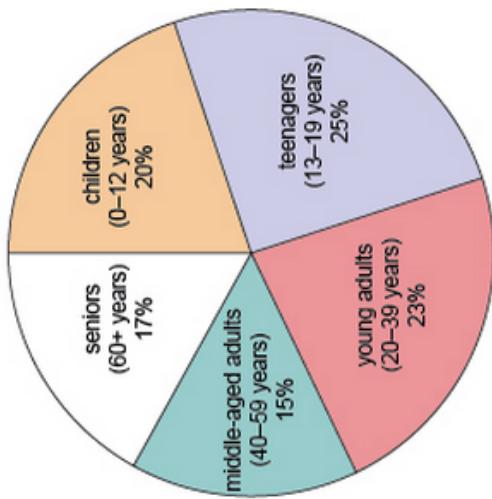
25B. The number of respondents who exercised on average less than one-half hour per day during the week is between Select... ▾, inclusive.

0 and 5
5 and 8
8 and 10
10 and 14
14 and 19



## Question 26 is based on the following information

Town Y Census Results: Age Distribution



A recent census revealed the age distribution of the residents of Town Y, shown in the graph. Since the census was performed, no resident has moved into or away from Town Y and there have been no recorded births or deaths.

Based on the given information, use the drop-down menus to most accurately complete the following statements.

## Question 26

- 26A. The census indicates that Select... times as many residents were children or teenagers as were seniors.

Select... ▾

1.17
1.47
2.65
3.00

- 26B. If, at the time of the census, there were 540 more people aged 0–39 than people aged 40 or greater, then the population of Town Y at the time of the census was Select... ▾.

Select... ▾

1,080
1,500
2,400
4,000

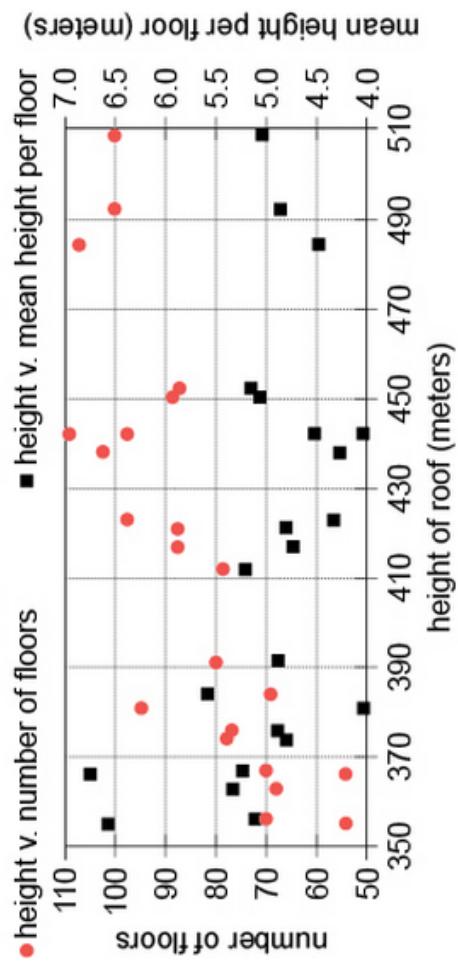


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## Question 27 is based on the following information

### Category A Buildings in Country X



In Country X, a building is in Category A if it has a roof height of at least 350 meters. In the graph, each of the 22 Category A buildings is represented by two points arranged vertically: one representing the comparison of the height of the building's roof to the number of floors (red circles), the other representing the comparison of the height of the building's roof to the mean height per floor (black squares).

Based on the given information, use the drop-down menus to most accurately complete the following statements about Category A buildings in Country X.

### Question 27

27A. The building with the greatest mean height per floor has a roof height between

Select... ▾



meters.



meters.



meters.



meters.



meters.



meters.



meters.



meters.



meters.



meters.



meters.

27B. There is a

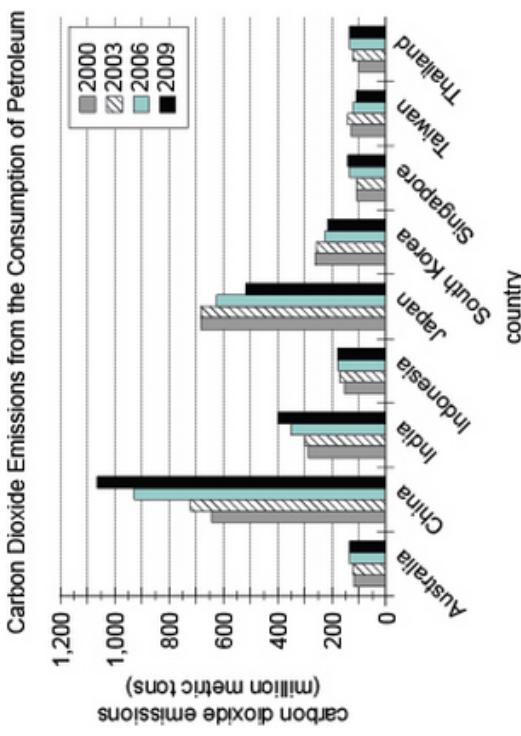
Select... ▾

correlation between the number of floors and the mean height per floor.

strong positive  
negligible  
strong negative



Question 28 is based on the following information



For each of the years 2000, 2003, 2006, and 2009, the graph shows the carbon dioxide emissions produced by the consumption of petroleum for 9 countries. Emissions are measured in millions of metric tons of carbon dioxide, where 1 million =  $10^6$ .

From each drop-down menu, select the option that creates the most accurate statement based on the information provided.

### Question 28

- 28A. Median carbon dioxide emissions for the 9 countries increased by  million metric tons from 2000 to 2009.
- Select... ▾
- less than 50
  - at least 50 but less than 100
  - at least 100

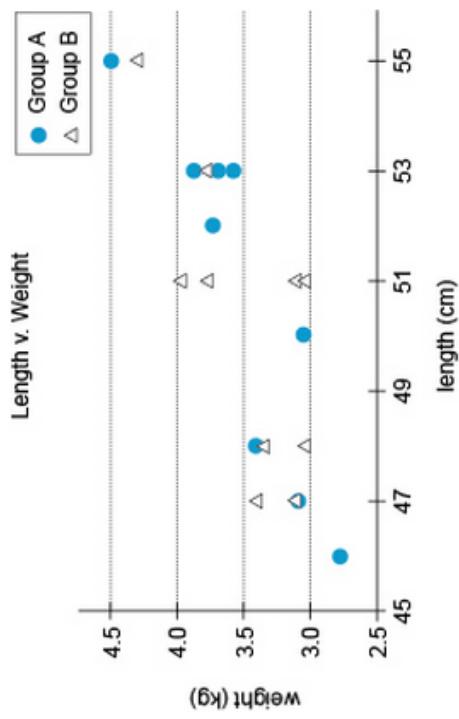
- 28B. In 2006, the range of carbon dioxide emissions for the 9 countries was approximately  million metric tons.
- Select... ▾
- 600
  - 800
  - 950
  - 1,050



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## Question 29 is based on the following information



During a four-day period, a height measurement and a weight measurement were recorded shortly after delivery for each baby born in a particular hospital. The 19 babies in the study were divided into two groups, Group A and Group B. The chart shows the length, in centimeters (cm), and weight, in kilograms (kg), for each of the 19 babies. Based on the given information, use the drop-down menus to most accurately complete the following statements.

## Question 29

- 29A. The correlation between length and weight for the babies in the study is

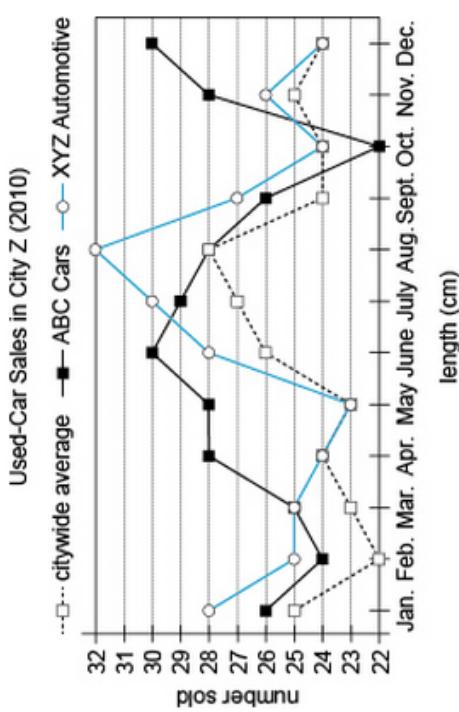
Select... ▾

strongly positive
negligible
strongly negative

- 29B. If a baby with weight less than 3.5 kg were selected at random, the probability that the baby would be a part of Group A is
- |             |
|-------------|
| Select... ▾ |
| 0.33        |
| 0.40        |
| 0.44        |
| 0.60        |
| 0.67        |



### Question 30 is based on the following information



In 2010, there were four used-car dealers in City Z. The graphic shows the monthly sales data for 2010 for two of those dealers as well as the citywide average for used-car dealers for those months. Based on the given information, use the drop-down menus to most accurately complete the following statements.

### Question 30

- 30A. ABC Cars and XYZ Automotive accounted for  half of all used-car sales in City Z for 2010.

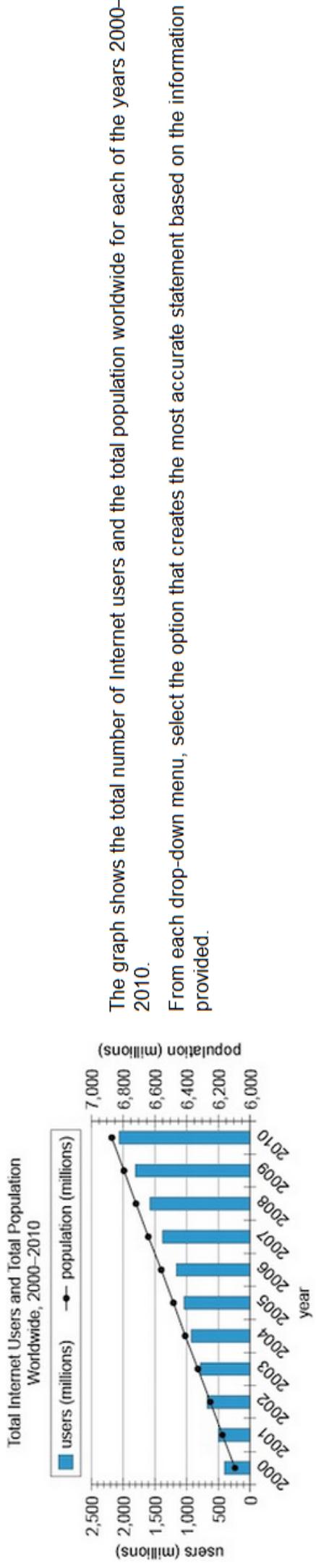
Select...  
less than  
exactly  
more than

- 30B. In June 2010, the two used-car dealers that are not specified on the graph sold a total of exactly  cars.

Select...  
23  
46  
52  
58



## Question 31 is based on the following information



## Question 31

- 31A. The percent increase in the total number of Internet users from 2002 to 2007 was approximately

Select... ▾ %.  
50  
100  
200  
300

- 31B. The number of Internet users per 100 people increased by approximately

Select... ▾ from 2000 to 2010.  
6  
12  
24  
30  
36



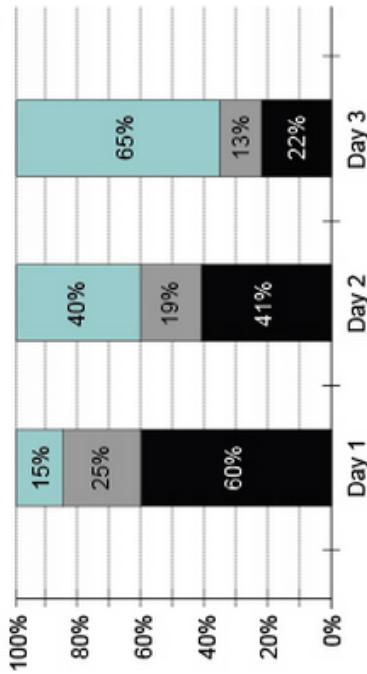
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## Question 32 is based on the following information

Behavior of Day 1 Shoppers

did not make a purchase, did not return that week  
 did not make a purchase, returned next day  
 purchased a different item, did not return that week



On Days 1 through 4 of a recent week, Product X was out of stock at Retailer R. Day 1 shoppers are those shoppers who came to Retailer R on Day 1 of that week seeking Product X. For each of the first 3 days of that week, the graph shows the subsequent behavior of all the Day 1 shoppers who came to Retailer R seeking Product X on that day. Shoppers at Retailer R who purchased a different item in lieu of Product X paid an average of 30% more for the item.

From each drop-down menu, select the option that creates the most accurate statement based on the information provided.

## Question 32

- 32A.  % of Day 1 shoppers returned to the store on Day 3.

Fewer than 1  
 Between 1 and 10  
 More than 10

- 32B. Shoppers at Retailer R who purchased substitute items from other manufacturers on Day 1 paid a total amount that was approximately  % of the total all Day 1 shoppers would have paid had each of them been able to purchase Product X on Day 1.

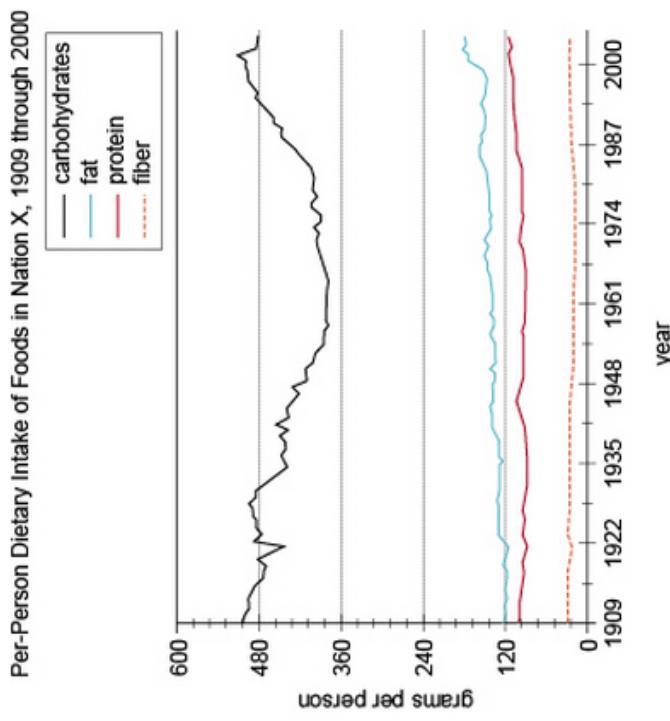
Select...  % of the total all  
60  
78  
100  
130



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### Question 33 is based on the following information



The graph depicts the per-person dietary intake of foods in 4 categories for the people of Nation X for the years 1909 through 2000. A decline in consumption in all 4 categories strongly suggests an overall food shortage rather than a simple change in dietary pattern.

From each drop-down menu, select the option that creates the most accurate statement about food consumption in Nation X based on the information provided.

### Question 33

- 33A. The graph suggests that Nation X most likely experienced a food shortage shortly before the year  Select... ▾.  
1922  
1961  
2000

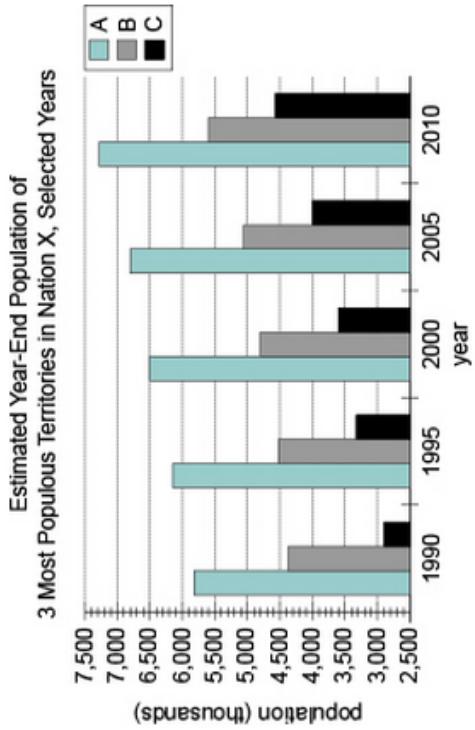
- 33B. For the year that the total dietary intake of carbohydrates was lowest, the per-person intake of carbohydrate fiber was  times the per-person intake of dietary fiber.  
Select... ▾  
3  
9  
18  
27



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### Question 34 is based on the following information



The graph shows the estimated year-end population for the 3 most populous territories in Nation X in 5 selected years. The estimated year-end population of Nation X was 17,000,000 in 1990 and 22,500,000 in 2010. From each drop-down menu, select the option that creates the most accurate statement based on the information provided.

### Question 34

- 34A. The increase in the estimated year-end population of Territory C from 1990 to 2010 accounts for approximately population of Nation X over the same period.

Select... ▶ % of the increase in the estimated year-end population of Nation X.

20
30
40
60

- 34B. In 2010, the estimated total year-end population of the 3 territories was Select... ▶ of the estimated year-end population of Nation X.
- |                     |
|---------------------|
| between 70% and 80% |
| between 80% and 90% |
| over 90%            |



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## Question 35 is based on the following information

Rock varnish is typically rich in iron and manganese, with the presence of manganese due to bacteria on the surface of the rock. Because the bacteria would not survive on the surface of rocks in the colder, continuously frozen, reaches of Antarctica, scientists were not surprised to discover that rock varnish in the Thiel Mountains area of Antarctica consists only of limonite, a form of oxidized iron. This had penetrated from the surfaces of the rocks into the cracks. However, although moisture is essential to the movement of limonite, snow has not melted in the Thiel Mountains in recent times.

Indicate which statement in the table the given information most strongly suggests is *true*, and the statement that the given information most strongly suggests is *false*. Make only two selections, one in each column.

## Question 35

	35A.	35B.
True	<input type="radio"/>	<input checked="" type="radio"/>
A	<input checked="" type="radio"/>	<input type="radio"/>
B	<input checked="" type="radio"/>	<input type="radio"/>
C	<input checked="" type="radio"/>	<input type="radio"/>
D	<input checked="" type="radio"/>	<input type="radio"/>
E	<input checked="" type="radio"/>	<input type="radio"/>
F	<input checked="" type="radio"/>	<input type="radio"/>



### Question 36 is based on the following information

A city is hosting a table tennis tournament for its residents. Each team has exactly two players, and each player is on exactly one other team and either wins or loses. The winning team advances to the next round and the losing team is eliminated. No team or player drops out except by losing a game. The tournament is in progress, and exactly 512 players participated in the first round.

From the available options, select a number of tournament rounds and a number of teams such that after the specified number of rounds there will be the specified number of teams remaining in the tournament. Make only two selections, one in each column.

### Question 36

	36A.	36B.
	Rounds completed	Teams remaining
A	<input type="radio"/>	2
B	<input type="radio"/>	4
C	<input type="radio"/>	8
D	<input type="radio"/>	16
E	<input type="radio"/>	32



### Question 37 is based on the following information

Naturalist: The decline of coral reefs has various causes. One contributing factor is predation on coral by organisms such as the crown-of-thorns sea star, whose preferred food source is coral polyps. Human fishing practices have decreased the sea star's predators, such as the harlequin shrimp. It is also possible that runoff containing nutrients for phytoplankton has resulted in larger phytoplankton blooms: the crown-of-thorns sea star gladly eats phytoplankton.

Indicate in the table which cause-and-effect sequence would most likely, according to the naturalist, result in coral reef decline. Make only two selections, one in each column.

### Question 37

	37A.	37B.
Cause	Effect	
A	<input type="radio"/>	An increase in phytoplankton
B	<input type="radio"/>	A decrease in phytoplankton
C	<input type="radio"/>	An increase in crown-of-thorns sea stars
D	<input type="radio"/>	A decrease in crown-of-thorns sea stars
E	<input type="radio"/>	An increase in harlequin shrimp



Question 38 is based on the following information

For each value of  $y$  greater than  $2\sqrt{3}$ , the function  $f(x)$  is such that the equation  $f(x) = y$  has the form  $x = \frac{y^2 + 12}{y}$ .

Select one value for  $a$  and one value for  $b$  such that the given information implies  $f(a) = b$ . Make only two selections, one in each column.

Question 38

	38A.	38B.
	<i>a</i>	<i>b</i>
A	<input type="radio"/>	<input checked="" type="radio"/>
B	<input checked="" type="radio"/>	<input type="radio"/>
C	<input type="radio"/>	<input checked="" type="radio"/>
D	<input checked="" type="radio"/>	<input type="radio"/>
E	<input type="radio"/>	<input checked="" type="radio"/>



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## Question 39 is based on the following information

Archaeologist: There were several porcelain-production centers in 18th-century Britain, among them Bristol, Plymouth, and New Hall. Each center developed a unique recipe for its porcelain that might include flint glass, soapstone, bone ash, clay, quartz, and so on. We will therefore be able to determine, on the basis of compositional analysis, where the next cup we recover from this archaeological site was made.

Indicate two different statements as follows: one statement identifies an *assumption required* by the archaeologist's argument and the other identifies a *possible fact* that, if true, would provide significant logical support for the required assumption.

## Question 39

	39A.	39B.
Assumption required	Possible fact	
A	<input type="radio"/>	Other cups have been recovered from the archaeological site, all of which were made of porcelain.
B	<input type="radio"/>	Some of the cups recovered from the archaeological site were not made of porcelain.
C	<input type="radio"/>	The next cup to be recovered from the site will likely be made of porcelain.
D	<input type="radio"/>	Porcelain makers often traveled between centers, experimenting with one another's recipes.
E	<input type="radio"/>	There was considerable overlap of materials in the recipes used by the various centers.
F	<input type="radio"/>	Most porcelain in 18th-century Britain was made at one of the several centers.



### Question 40 is based on the following information

Adiliah, Bao, Davi, Laszlo, Saleema, and Yarah work in a firm's legal department. Adiliah supervises Bao and Davi, Davi supervises Laszlo, and Laszlo supervises Saleema and Yarah. These are the only supervisory relationships involving these 6 employees. Each document that the department processes must be initially reviewed by exactly 1 department member. Each document reviewed by a department member must then be reviewed by that person's supervisor. No other rules require anyone else to review any document. Anyone not required to review a given document will not review it.

Select *Laszlo among reviewers* for the maximum number of department members that could have reviewed a single document if Laszlo was among the reviewers. Select *Adiliah among reviewers* for the maximum number of department members that could have reviewed a single document if Adiliah was among the reviewers. Make only two selections, one in each column.

### Question 40

	40A.	40B.
Laszlo among reviewers	Adiliah among reviewers	
A	<input type="radio"/>	<input checked="" type="radio"/>
B	<input checked="" type="radio"/>	<input type="radio"/>
C	<input type="radio"/>	<input checked="" type="radio"/>
D	<input checked="" type="radio"/>	<input type="radio"/>
E	<input type="radio"/>	<input checked="" type="radio"/>
F	<input checked="" type="radio"/>	<input type="radio"/>



## Question 41 is based on the following information

Archaeologist: Although thin-walled pottery is better able to resist the damaging effects of thermal stress resulting from being placed over a fire, such pottery is more prone to breaking during transport. We can therefore make predictions about pottery use by a group of people on the basis of a certain lifestyle characteristic of the group.

The archaeologist suggests that a certain type of prediction about a group can be made on the basis of the group having a certain type of characteristic. Indicate in the table the possible characteristic and prediction that most strongly conform to the archaeologist's suggestion. Make only two selections, one in each column.

## Question 41

	41A. Characteristic	41B. Prediction
A	<input type="radio"/>	<input checked="" type="radio"/> The group is sedentary rather than nomadic.
B	<input checked="" type="radio"/>	<input type="radio"/> The group has not discovered pottery.
C	<input type="radio"/>	<input checked="" type="radio"/> The group uses thin-walled pots.
D	<input checked="" type="radio"/>	<input type="radio"/> The group uses fire for warmth and protection.
E	<input type="radio"/>	<input checked="" type="radio"/> The group uses thick-walled pots.



### Question 42 is based on the following information

Consider a right circular cylinder for which the following quantities are all numerically equal: the height, in meters; one-fourth of the volume, in cubic meters; the area of the circular base, in square meters.

In the table, select a value for the diameter of the circular base and a value for the height, where both are measured in meters, so that the two values are jointly consistent with the information provided. Make only two selections, one in each column.

### Question 42

	42A.	42B.	
	Diameter	Height	
A	2	$\frac{2}{\sqrt{\pi}}$	
B	$\frac{4}{\sqrt{\pi}}$	2	
C	4	2	
D	$\frac{16}{\pi}$	2	
E	4 $\pi$	2	
F	16	2	



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## Question 43 is based on the following information

Professor A: The aid industry should begin to limit its efforts to spending on primary schools in the poorest areas, providing medicines and other basic supplies for health care such as mosquito nets, and to a few key agricultural initiatives.

Professor B: Much education work has been ineffective. A village or town with poor schooling may be better off getting a road than a teacher. Once local farmers can transport produce to market they will be willing to pay for schools—and to make sure the schools succeed.

Suppose that the professors' statements express their genuine opinions. Select statements (1) and (2) as follows: Professor A would likely disagree with (1) and Professor B would take (2) to present logical support for (1). Select only two statements, one per column.

## Question 43

	43A.	43B.
	(1)	(2)
A	<input type="radio"/>	<input checked="" type="radio"/>
B	<input checked="" type="radio"/>	<input type="radio"/>
C	<input type="radio"/>	<input checked="" type="radio"/>
D	<input checked="" type="radio"/>	<input type="radio"/>
E	<input type="radio"/>	<input checked="" type="radio"/>
F	<input checked="" type="radio"/>	<input type="radio"/>



### Question 44 is based on the following information

A car is traveling on a straight stretch of roadway, and the speed of the car is increasing at a constant rate. At time 0 seconds, the speed of the car is  $v_0$  meters per second; 10 seconds later, the front bumper of the car has traveled 125 meters and the speed of the car is  $v_{10}$  meters per second.

In the table, select values of  $v_0$  and  $v_{10}$  that are together consistent with the information provided. Make only two selections, one in each column.

### Question 44

	44A.	44B.
	$v_0$	$v_{10}$
A	<input type="radio"/>	<input checked="" type="radio"/>
B	<input checked="" type="radio"/>	<input type="radio"/>
C	<input type="radio"/>	<input checked="" type="radio"/>
D	<input checked="" type="radio"/>	<input type="radio"/>
E	<input type="radio"/>	<input checked="" type="radio"/>



## Question 45 is based on the following information

Journalist: The end of the Triassic, the geologic period that extended from about 250 to 200 million years ago, has traditionally been blamed on volcanic eruptions that went on for 600,000 years. However, a researcher has recently suggested that these eruptions were only an indirect cause. By analyzing the isotopic composition of hydrocarbon molecules from plant waxes from the period, he discovered what looks like a spike in the amount of nonbiological carbon in the atmosphere, lasting between 10,000 and 20,000 years. The researcher believes that the release of methane—a carbon-containing greenhouse gas much stronger than carbon dioxide—stored at the bottom of the ocean was the direct cause of the end of the Triassic.

The journalist suggests that a certain causal sequence may have brought about the end of the Triassic. Identify in the table the sequence of *cause* and *effect* most strongly suggested by the journalist to have resulted in the end of the Triassic. Make only two selections, one per column.

## Question 45

	45A. Cause	45B. Effect
A	<input type="radio"/>	<input type="radio"/> The emissions of volcanoes into the atmosphere
B	<input type="radio"/>	<input type="radio"/> The extinction of many oceanic biological species
C	<input type="radio"/>	<input type="radio"/> The eruption of volcanoes
D	<input type="radio"/>	<input type="radio"/> The release of carbon dioxide into the atmosphere
E	<input type="radio"/>	<input type="radio"/> The release of methane from the bottom of the ocean



Question 46 is based on the following information

For each positive integer  $n$ , the quantity  $s_n$  is defined such that  $s_{n+2} = (s_n)^2 - s_{n+1}$ . In addition,  $s_2 = 1$ .

In the table, select values for  $s_1$  and  $s_4$  that are jointly compatible with these conditions. Select only two values, one in each column.

Question 46

	46A.	46B.
	$s_1$	$s_4$
A	<input type="radio"/>	<input checked="" type="radio"/>
B	<input checked="" type="radio"/>	<input type="radio"/>
C	<input type="radio"/>	<input checked="" type="radio"/>
D	<input checked="" type="radio"/>	<input type="radio"/>
E	<input type="radio"/>	<input checked="" type="radio"/>



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## Question 47 is based on the following information

In an experiment, researchers posed simple questions in geometry to children from varied backgrounds. One group consisted of 7-to-13-year-old children of the Mundurucú, an isolated indigenous group in the Amazon basin. The Mundurucú children, who had no formal training in geometry, answered the questions just as quickly and accurately as did French children of the same ages who did have formal training in geometry. In contrast, 5-year-old North American children had much more trouble answering the questions. The researchers concluded that some basic geometric knowledge is innate, but this innate knowledge typically develops only after age 5.

In the table, select the statement that would, if true, most strengthen the researchers' conclusion and most weaken it, respectively. Make only two selections, one in each column.

### Question 47

	47A.	47B.
Most strengthen	Most weaken	
A <input type="radio"/>	<input checked="" type="radio"/>	North American children 7 to 13 years old had much more trouble answering the questions than did the Mundurucú of the same ages.
B <input checked="" type="radio"/>	<input type="radio"/>	None of the 5-year-old North American children had ever studied any geometry.
C <input type="radio"/>	<input checked="" type="radio"/>	Mundurucú children who were 5 years old had just as much trouble answering the questions as did the 5-year-old North American children.
D <input checked="" type="radio"/>	<input type="radio"/>	The researchers posed the same questions to 5-year-old French and Mundurucú children as they posed to the 7-to-13-year-old children.
E <input type="radio"/>	<input checked="" type="radio"/>	Most of the children studied answered one or more of the questions incorrectly.



### Question 48 is based on the following information

At XYZ Inc., an employee receives a verbal warning upon accumulating at least 3 unexcused absences within any 365-day period and a written reprimand upon accumulating at least 4 such absences. For any single 8-hour workday, missing between 10 minutes and 2 hours of work counts as one-third of an absence, missing between 2 hours and 4 hours of work counts as half an absence, and missing more than 4 hours counts as a full absence. However, an employee may stay late to make up for up to 1 hour of an unexcused absence on the same day.

The table contains descriptions of the unexcused absences of 5 employees of XYZ Inc. Assume that in each case the employee had no other unexcused absences and made up no other time. In the table, select a description of an employee who qualified for a verbal warning but not a written reprimand, and select a description of an employee who qualified for a written reprimand. Make only two selections, one in each column.

### Question 48

	48A.	48B.
	Verbal warning	Written reprimand
A	<input type="radio"/>	<input checked="" type="radio"/>
B	<input checked="" type="radio"/>	<input type="radio"/>
C	<input type="radio"/>	<input checked="" type="radio"/>
D	<input checked="" type="radio"/>	<input type="radio"/>
E	<input type="radio"/>	<input checked="" type="radio"/>



## Question 49 is based on the following information

Metro Ballet Company presents high-quality productions of traditional, classical ballet. For the past several years, however, the company's overall profits have been declining, and ticket sales have been flat. Annual audience surveys indicate that a majority of those who attend Metro Ballet productions consistently enjoy the performances and prefer classical ballet to other forms of dance; almost all of them have been attending Metro Ballet for several years. General surveys of area residents indicate, however, that very few are aware of Metro Ballet productions, and most imagine that the performances are boring and the tickets too expensive. In an effort to appeal to a wider audience, over the past decade the company has spent increasing amounts of money on spectacular stage productions, while lowering ticket prices.

In the first column of the table, select the strategy that, in the absence of the other alternatives listed, would lead most directly to decreasing Metro Ballet's expenses for its classical ballet productions. In the second column, select the strategy that, in the absence of the other alternatives listed, would constitute the most direct approach to solving the problem of increasing audience size for Metro Ballet's classical ballet productions. Make only two selections, one in each column.

## Question 49

	49A.	49B.
A	<input type="radio"/>	<input checked="" type="radio"/>
B	<input checked="" type="radio"/>	<input type="radio"/>
C	<input type="radio"/>	<input checked="" type="radio"/>
D	<input type="radio"/>	<input checked="" type="radio"/>
E	<input checked="" type="radio"/>	<input type="radio"/>



### Question 50 is based on the following information

A mattress company has two stores, one in City X and the other in City Z. The company has advertised equally in newspapers in both cities, but has advertised twice as much on the radio in City Z as in City X. The two cities have similar populations and economies and the sales at each store have been roughly equal. A consultant claims this shows that the radio advertising has not improved mattress sales.

In the table, select changes that the company could make in City X and City Z, respectively, that together would probably be most helpful in testing the consultant's claim. Make only two selections, one in each column.

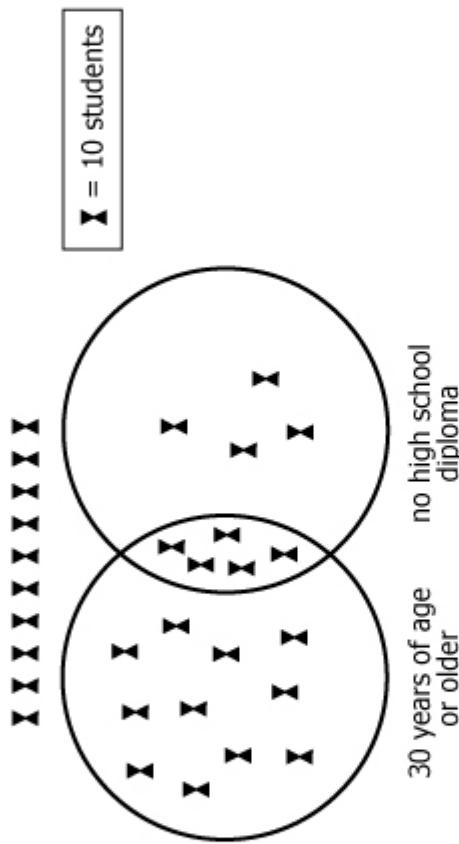
### Question 50

	50A. City X	50B. City Z
A	<input type="radio"/>	<input checked="" type="radio"/> Double newspaper advertising
B	<input checked="" type="radio"/>	<input type="radio"/> Eliminate newspaper advertising
C	<input checked="" type="radio"/>	<input type="radio"/> Eliminate radio advertising
D	<input type="radio"/>	<input checked="" type="radio"/> Change the content of radio advertising
E	<input checked="" type="radio"/>	<input type="radio"/> Add television advertising



## Question 51

Integrated Reasoning :: IIR000275



Refer to the pictograph of a survey of students at Central Community College. Each symbol represents 10 students in a sample of 300.

Use the drop-down menus to complete each statement according to the information presented in the diagram.

If one student is selected at random from the 300 surveyed, the chance that the student will be under 30 or a high school graduate or both is

Select...

- 1 out of 6
- 1 out of 3
- 2 out of 3
- 5 out of 6

If one student is selected at random from the 300 surveyed, the chance that the student will be both under 30 and a high school graduate is

Select...

- 1 out of 6
- 1 out of 3
- 2 out of 3
- 5 out of 6



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Questions 52 to 56 are based on the following information

Integrated Reasoning :: IIR000816-05

Island Museum analyzes historical artifacts using one or more techniques described below—all but one of which is performed by an outside laboratory—to obtain specific information about an object's creation. For each type of material listed, the museum uses only the technique described:

Animal teeth or bones: The museum performs *isotope ratio mass spectrometry* (IRMS) in-house to determine the ratios of chemical elements present, yielding clues as to the animal's diet and the minerals in its water supply.

Metallic ores or alloys: *Inductively coupled plasma mass spectrometry* (ICP-MS) is used to determine the ratios of traces of metallic isotopes present, which differ according to where the sample was obtained.

Plant matter: While they are living, plants absorb carbon-14, which decays at a predictable rate after death; thus *radiocarbon dating* is used to estimate a plant's date of death.

Fired-clay objects: *Thermoluminescence* (TL) dating is used to provide an estimate of the time since clay was fired to create the object.

Techniques	Artifacts	Budget
<p>Island Museum has acquired a collection of metal, fired clay, stone, bone, and wooden artifacts found on the Kaxna Islands, and presumed to be from the Kaxna Kingdom of 1250–850 BC. Researchers have mapped all the mines, quarries, and sources of clay on Kaxna and know that wooden artifacts of that time were generally created within 2 years after tree harvest. There is, however, considerable uncertainty as to whether these artifacts were actually created on Kaxna.</p> <p>In analyzing these artifacts, the museum assumes that radiocarbon dating is accurate to approximately ±200 years and TL dating is accurate to approximately ±100 years.</p>		
		<p>For outside laboratory tests, the museum's first-year budget for the Kaxna collection allows unlimited IRMS testing, and a total of \$7,000—equal to the cost of 4 TL tests plus 15 radiocarbon tests, or the cost of 40 ICP-MS tests—for all other tests. For each technique applied by an outside lab, the museum is charged a fixed price per artifact.</p>



## Question 52

For each of the following combinations of Kaxna artifacts, select Yes if, based on the information provided, the cost of all pertinent techniques described can be shown to be within the museum's first-year Kaxna budget. Otherwise, select No.

Yes

- 2 fired-clay statues and 10 bronze statues
- 3 fired-clay statues and 5 tin implements
- 4 fired-clay pots and 20 wooden statues

No

- IRMS analysis of a necklace made from animal bones and teeth
- A TL date for a fired-clay brick that places it definitively in the period of the Kaxna Kingdom
- ICP-MS analysis of a metal tool that reveals element ratios unique to a mine on Kaxna

## Question 53

Which one of the following pieces of information would, on its own, provide the strongest evidence that the given artifact was actually produced on Kaxna?

- A radiocarbon date of 1050 BC for a wooden bowl



### Question 54

Among the Kaxna artifacts is a wooden box containing both a small fired-clay bead and some river sediment containing clay and plant matter. Based on the museum's assumptions, which one of the following details about the bead can be determined by applying one of the tests in the manner described?

- A range of dates for its manufacture
- The Kaxna island on which it was made
- Vegetation patterns near the workshop where it was made
- A range of dates for its placement in the box
- The source of clay used to make the bead

### Question 56

For each of the following combinations of Kaxna artifacts, select Yes if, based on the information provided, the cost of all pertinent techniques described can be shown to be within the museum's first-year Kaxna budget. Otherwise, select No.

- | Yes                   | No  |
|-----------------------|---|
| <input type="radio"/> | <input type="radio"/> 2 bone implements and 5 fired-clay cups decorated with gold |
| <input type="radio"/> | <input type="radio"/> 7 wooden statues and 20 metal implements                    |
| <input type="radio"/> | <input type="radio"/> 15 wooden statues decorated with bone                       |

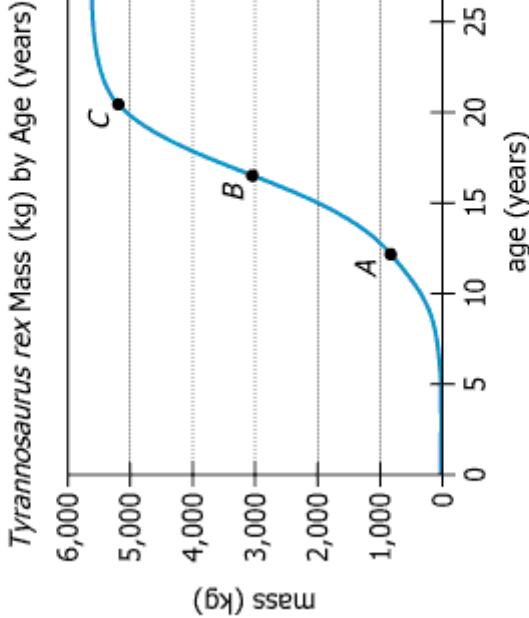
### Question 55

For each of the following results of tests performed on Kaxna artifacts, select Yes if, based on the museum's assumptions, the result confirms that the artifact was created during the time of the Kaxna Kingdom. Otherwise, select No.

- | Yes                   | No  |
|-----------------------|---|
| <input type="radio"/> | <input type="radio"/> Bone necklace shown by IRMS to have element ratios characteristic of artifacts known to be from the Kaxna Kingdom |
| <input type="radio"/> | <input type="radio"/> Fired-clay jug dated to 1050 BC by TL dating  |
| <input type="radio"/> | <input type="radio"/> Copper box shown by ICP-MS to have the same ratio of trace metals found in the copper mines of Kaxna              |

## Question 57

Integrated Reasoning :: IIR000701



The graph models the hypothetical mass, in kilograms, of a *Tyrannosaurus rex* up to 30 years of age. Points A, B, and C represent the masses for a *Tyrannosaurus rex* at ages 12, 16, and 20, respectively, according to the model.

From each drop-down menu, select the option that creates the most accurate statement based on the information provided.

For integer values of the age from 12 to 30, the average (arithmetic mean) mass falls approximately between Select... kilograms.

Select... ▾ kilograms.

2,000 and 3,000
3,000 and 4,000
4,000 and 5,000

The percent change in the mass from age 12 to age 16 is approximately Select... ▾ the percent change in the mass from age 16 to age 20.

Select... ▾ the percent change in the mass from age 16 to age 20.

Select... ▾ equal to
2 times
3 times

## Question 58

Integrated Reasoning :: IIR000157



The Quasi JX is a new car model. Under ideal driving conditions, the Quasi JX's fuel economy is  $E$  kilometers per liter ( $E \frac{\text{km}}{\text{L}}$ ) when its driving speed is constant at  $S$  kilometers per hour ( $S \frac{\text{km}}{\text{h}}$ ).

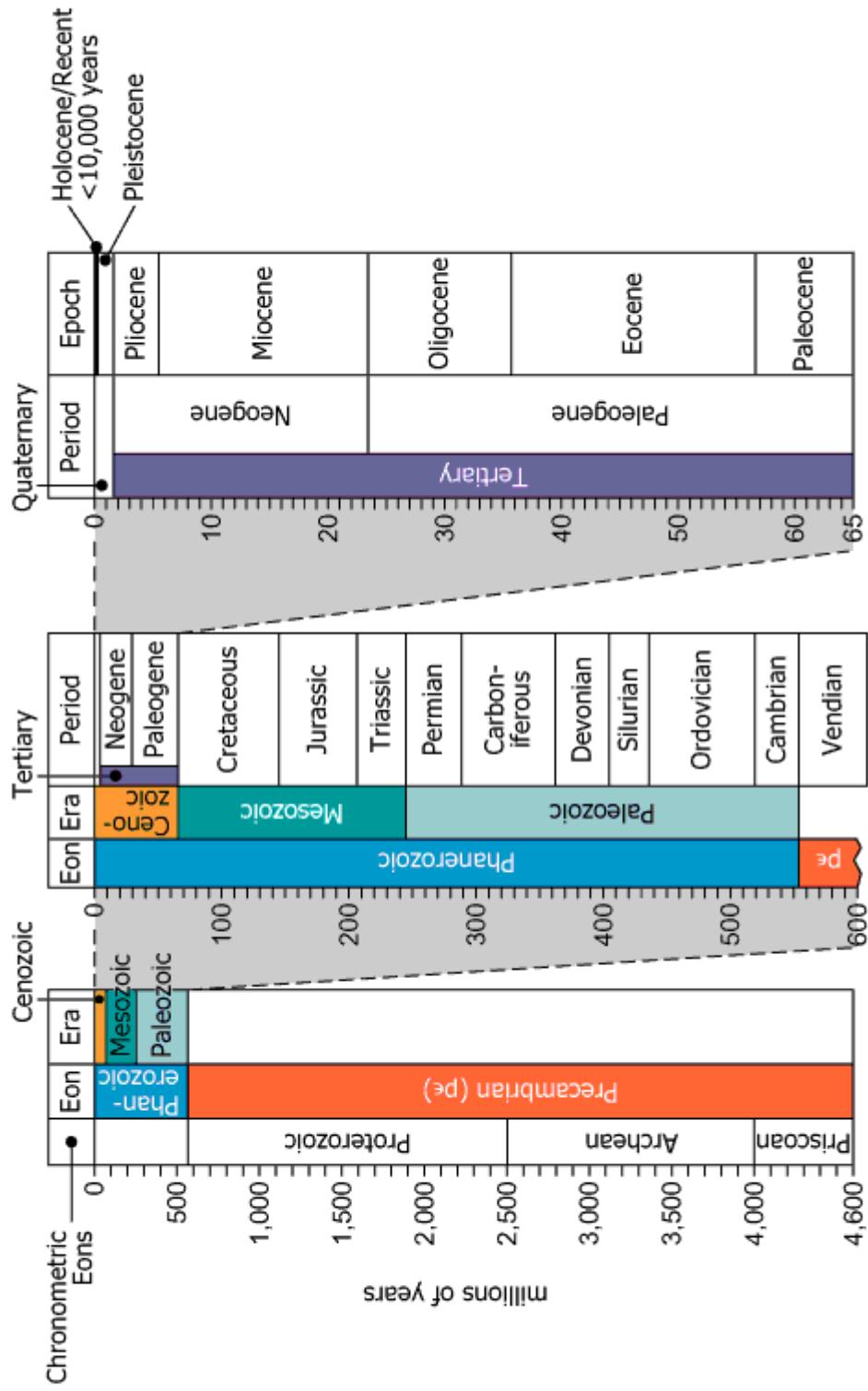
In terms of the variables  $S$  and  $E$ , select the expression that represents the number of liters of fuel used in 1 hour of driving under ideal driving conditions at a constant speed  $S$ , and select the expression that represents the number of liters of fuel used in a 60 km drive under ideal driving conditions at a constant speed  $S$ . Make only two selections, one in each column.

Liters of fuel in 1 h	Liters of fuel in 60 km
<input type="radio"/>	$\frac{S}{E}$
<input type="radio"/>	$\frac{E}{S}$
<input type="radio"/>	$\frac{60}{E}$
<input type="radio"/>	$\frac{60}{S}$
<input type="radio"/>	$\frac{S}{60}$
<input type="radio"/>	$\frac{E}{60}$



Question 59 is based on the following diagram

Integrated Reasoning :: IIR000471



## Question 59

The diagram shows, in three column groupings, various divisions of Earth's geological history since its formation approximately 4,600 million years ago. In the leftmost column grouping, the Precambrian eon is subdivided into chronometric eons shown on the far left; but otherwise, in the rest of the graphic, each subsequent column to the right shows the subdivisions of the timeframes to its left. Each of the rightmost two column groupings is a magnification—with additional information—of a portion of the grouping directly to its left.

Fill each blank using the drop-down menu to create the most accurate statement on the basis of the information provided.

The Miocene epoch spans closest to  of the era of which it is a part.

Select...  
3%  
25%  
85%

According to the diagram the beginning of the  marks the onset of a new eon, era, and period in geological history.

Select...  
Cambrian period  
Triassic period  
Pliocene epoch  
Precambrian eon



Question 60

Integrated Reasoning :: IIR000806



Over a period of 5 academic years from Fall 1999 through Spring 2004, the number of faculty at a certain college increased despite a decrease in student enrollment from 5,500 students in Fall 1999.

In the given expressions,  $F$  and  $S$  represent the percent change in the number of faculty and students, respectively, over the 5 academic years, and  $R$  represents the number of students per faculty member in Fall 1999. The percent change in a quantity  $X$  is calculated using the formula

$$(100),$$

Select the expression that represents the number of faculty in Fall 1999, and select the expression that faculty member in Spring 2004. Make only two selections, one in each column.

Number of faculty in Fall 1999	Students per faculty member in Spring 2004
5,500R	$\frac{5,500}{R}$ $\frac{1}{R}$

Question 61 is based on the following information

Integrated Reasoning :: IIR000764

The table displays data on Brazilian agricultural products in 2009.

Commodity	Production, world share (%)	Production, world rank	Exports, world share (%)	Exports, world rank
Beef	16	2	22	1
Chickens	15	3	38	1
Coffee	40	1	32	1
Corn	8	4	10	2
Cotton	5	5	10	4
Orange juice	56	1	82	1
Pork	4	4	12	4
Soybeans	27	2	40	2
Sugar	21	1	44	1
	21	1	44	1

Sort By: Select... Production, world rank ▲ ▼

Sort By: Production, world share (%) ▲ ▼

Commodity	Production, world share (%)	Production, world rank	Exports, world share (%)	Exports, world rank
Orange juice	56	1	82	1
Coffee	40	1	32	1
Sugar	21	1	44	1
Soybeans	27	2	40	2
Beef	16	2	22	1
Chickens	15	3	38	1
Corn	8	4	10	2
Pork	4	5	12	4
Cotton	5	6	40	1

Sort By: Production, world share (%) ▲ ▼

Sort By: Exports, world share (%) ▲ ▼

Commodity	Production, world share (%)	Production, world rank	Exports, world share (%)	Exports, world rank
Corn	8	4	10	2
Cotton	5	5	10	4
Pork	4	6	12	4
Beef	16	2	22	1
Coffee	40	1	32	1
Chickens	15	3	38	1
Soybeans	27	2	40	2
Sugar	21	1	44	1
Orange juice	56	1	82	1

Commodity	Production, world share (%)	Production, world rank	Exports, world share (%)	Exports, world rank
Pork	4	4	12	4
Cotton	5	5	10	4
Corn	8	4	10	4
Chickens	15	3	38	1
Beef	16	2	22	1
Sugar	21	1	44	1
Soybeans	27	2	40	2
Coffee	40	1	44	1
Orange juice	56	1	82	1

Sort By: Exports, world rank ▲ ▼



The table displays data on *Brazilian agricultural* products in 2009.

Sort  
By:  
**Exports, world rank** ▲

Commodity	Production, world share (%)	Production, world rank	Exports, world share (%)	Exports, world rank
Orange juice	56	1	82	1
Coffee	40	1	32	1
Sugar	21	1	44	1
Beef	16	2	22	1
Chickens	15	3	38	1
Soybeans	27	2	40	2
Corn	8	4	10	2
Cotton	5	5	10	4
Pork	4	4	12	4

### Question 61

For each of the following statements, select Yes if the statement can be shown to be true based on the information in the table. Otherwise select No.

- Yes       No      No individual country produces more than one-fourth of the world's sugar.
- Yes       No      If Brazil produces less than 20% of the world's supply of any commodity listed in the table, Brazil is not the world's top exporter of that commodity.
- Yes       No      Of the commodities in the table for which Brazil ranks first in world exports, Brazil produces more than 20% of the world's supply.



## Question 62

Integrated Reasoning :: IIR000813



A literature department at a small university in an English-speaking country is organizing a two-day festival in which it will highlight the works of ten writers who have been the subjects of recent scholarly work by the faculty. Five writers will be featured each day. To reflect the department's strengths, the majority of writers scheduled for one of the days will be writers whose primary writing language is not English. On the other day of the festival, at least four of the writers will be women. Neither day should have more than two writers from the same country. Departmental members have already agreed on a schedule for eight of the writers. That schedule showing names, along with each writer's primary writing language and country of origin, is shown.

• **Day 1:**

Achebe (male, English, Nigeria)

Weil (female, French, France)

Gavalda (female, French, France)

Barrett Browning (female, English, UK)

• **Day 2:**

Rowling (female, English, UK)

Austen (female, English, UK)

Ocantos (male, Spanish, Argentina)

Lu Xun (male, Chinese, China)

Select a writer who could be added to the schedule for either day. Then select a writer who could be added to the schedule for neither day. Make only two selections, one in each column.

Either day	Neither day	Writer
<input type="radio"/>	<input type="radio"/>	LeGuin (female, English, USA)
<input type="radio"/>	<input type="radio"/>	Longfellow (male, English, USA)
<input type="radio"/>	<input type="radio"/>	Murasaki (female, Japanese, Japan)
<input type="radio"/>	<input type="radio"/>	Colette (female, French, France)
<input type="radio"/>	<input type="radio"/>	Vargas Llosa (male, Spanish, Peru)
<input type="radio"/>	<input type="radio"/>	Zola (male, French, France)



## Question 63 is based on the following information

Integrated Reasoning :: IIR000816-05

Techniques	Artifacts	Budget
<p>Island Museum analyzes historical artifacts using one or more techniques described below—all but one of which is performed by an outside laboratory—to obtain specific information about an object's creation. For each type of material listed, the museum uses only the technique described:</p> <p>Animal teeth or bones: The museum performs <i>isotope ratio mass spectrometry</i> (IRMS) in-house to determine the ratios of chemical elements present, yielding clues as to the animal's diet and the minerals in its water supply.</p> <p>Metallic ores or alloys: <i>Inductively coupled plasma mass spectrometry</i> (ICP-MS) is used to determine the ratios of traces of metallic isotopes present, which differ according to where the sample was obtained.</p> <p>Plant matter: While they are living, plants absorb carbon-14, which decays at a predictable rate after death; thus <i>radiocarbon dating</i> is used to estimate a plant's date of death.</p> <p>Fired-clay objects: <i>Thermoluminescence</i> (TL) dating is used to provide an estimate of the time since clay was fired to create the object.</p>		<p>Island Museum has acquired a collection of metal, fired clay, stone, bone, and wooden artifacts found on the Kaxna Islands, and presumed to be from the Kaxna Kingdom of 1250–850 BC. Researchers have mapped all the mines, quarries, and sources of clay on Kaxna and know that wooden artifacts of that time were generally created within 2 years after tree harvest. There is, however, considerable uncertainty as to whether these artifacts were actually created on Kaxna.</p> <p>In analyzing these artifacts, the museum assumes that radiocarbon dating is accurate to approximately <math>\pm 200</math> years and TL dating is accurate to approximately <math>\pm 100</math> years.</p>
Techniques	Artifacts	Budget



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### Question 63

For each of the following artifacts in the museum's Kaxna collection, select Yes if, based on the museum's assumptions, a range of dates for the object's creation can be obtained using one of the techniques in the manner described. Otherwise, select No.

Yes      No

- Bronze statue of a deer
- Fired-clay pot
- Wooden statue of a warrior



Question 64 is based on the following information

Integrated Reasoning :: IIR000765

Percentage of Population Visiting Selected Cultural Institutions,  
Single Year

Sort  
By:  
Select... ▾

Sort  
By:  
Public library ▾

Country/ political union	Public library	Zoo/ aquarium	Natural history museum	Science/ technology museum
Russia	15	8	5	2
Brazil	25	28	7	4
European Union	35	27	20	18
South Korea	35	37	30	10
China	41	51	13	19
Japan	48	45	20	12
US	65	48	27	26

Country/ political union	Public library	Zoo/ aquarium	Natural history museum	Science/ technology museum
Russia	15	8	5	2
Brazil	25	28	7	4
European Union	35	27	20	18
South Korea	35	37	30	10
China	41	51	13	19
Japan	48	45	20	12
US	65	48	27	26

Country/ political union	Public library	Zoo/ aquarium	Natural history museum	Science/ technology museum
Brazil	25	28	7	4
China	41	51	13	19
European Union	35	27	20	18
Japan	48	45	20	12
Russia	15	8	5	2
South Korea	35	37	30	10
US	65	48	27	26

Country/ political union	Public library	Zoo/ aquarium	Natural history museum	Science/ technology museum
Russia	15	8	5	2
European Union	35	27	20	18
Brazil	25	28	7	4
South Korea	35	37	30	10
Japan	48	45	20	12
US	65	48	27	26
China	41	51	13	19



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<http://0rz.tw/kfzAq>

## Question 64

Sort By: Natural history museum ↑

Country/ political union	Public library	Zoo/ aquarium	Natural history museum	Science/ technology museum
Russia	15	8	5	2
Brazil	25	28	7	4
China	41	51	13	19
European Union	35	27	20	18
Japan	48	45	20	12
US	65	48	27	26
South Korea	35	37	30	10

For each of the following statements select *Would help explain* if it would, if true, help explain some of the information in the table. Otherwise select *Would not help explain*.

Would not help explain

Sort By: Science/technology museum ↑

Country/ political union	Public library	Zoo/ aquarium	Natural history museum	Science/ technology museum
Russia	15	8	5	2
Brazil	25	28	7	4
South Korea	35	37	30	10
Japan	48	45	20	12
European Union	35	27	20	18
China	41	51	13	19
US	65	48	27	26

The proportion of the population of Brazil that lives within close proximity to at least one museum is larger than that of Russia.

Would not help explain

The proportion of the population of Brazil that lives within close proximity to at least one museum is larger than that of Russia.

Would help explain

Of the countries/political unions in the table, Russia has the fewest natural history museums per capita.

Would not help explain

Of the countries/political unions in the table, the three that spend the most money to promote their natural history museums are also those in which science is most highly valued.

Would help explain



## Question 65

Integrated Reasoning :: IIR000508



The following excerpt from a fictitious science news report discusses a fictitious type of location called a *morefa*.

For zoologists studying the behavior of certain species of birds, the critical importance of observing the birds in those species' morefa during the annual breeding season is obvious. Such observation allows researchers to study not only the courtship displays of many different individuals within a species, but also the species' social hierarchy. Moreover, since some species repeatedly return to the same morefa, researchers can study changes in group dynamics from year to year. The value of observing a morefa when the birds are not present, however—such as prior to their arrival or after they have abandoned the area to establish their nests—is only now becoming apparent.

Based on the definition of the imaginary word *morefa* that can be inferred from the previous paragraph, which of the following activities of a bird species must happen in a location for that location to be the species' morefa, and which must NOT happen in a location for that location to be the species' morefa? Make only two selections, one in each column.

Must happen in the location	Must not happen in the location	Activities of the members of the species
<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input checked="" type="radio"/>	Sleeping Occupying the location multiple times Establishing nests Gathering together with members of their own species Territorial competition with members of different species



**Village Sites** | **Food Variety** | **Food Consumption**

An archaeological team has been excavating three ancient village sites—Barras, Agna, and Cussaia—looking in particular at kitchen waste dumps as a way to understand the villages' dietary patterns and trading relationships. What follows are brief summaries of their findings.

**Barras:** The best data come from stratified finds in this oceanside village, which was inhabited from AD 600 to 1300 and was the only one of the three villages to produce seafood, its main dietary item. Though Barras residents hunted on land and raised crops, this provided relatively small amounts of food. As Barras's overall prosperity rose, there was more food available per person, and its population increased from an average of 100 residents in the AD 600s to 400 residents in the AD 1000s to 600 residents in the AD 1200s.

**Agna:** Agna was established in an inland forest around AD 800 and its residents mainly hunted but also ate considerable amounts of fruit, nuts, and other forest-vegetable products. They also traded meat to Barras for other goods. With no open fields, Agna grew no grain.

**Cussaia:** Predating Barras, Cussaia depended heavily on raising grain crops and eventually obtained seafood and meat via trade. It traded directly only with Barras, because a mountain range separated it from Agna, though some products may have been traded between Agna and Cussaia via Barras.

Additionally, there is no evidence that any other village traded with Barras, Agna, or Cussaia prior to AD 1300.

**Village Sites** | **Food Variety** | **Food Consumption**

**Barras:** Percentages, by Estimated Weight, of Dietary Items Consumed per Person per Month

Century	Seafood	Meat	Grains	Other
600s	65%	10%	10%	15%
700s	65%	10%	15%	10%
800s	60%	15%	15%	10%
900s	45%	30%	12%	13%
1000s	45%	30%	12%	13%
1100s	60%	10%	20%	10%
1200s	55%	25%	10%	10%

**Village Sites** | **Food Variety** | **Food Consumption**

**Barras, Agna:** Estimated Average Monthly  
Meat and Seafood Consumption  
(lb per 4-Person Family)

Century	Barras	Agna		
	Seafood	Meat	Seafood	Meat
600s	240	37	Not applicable	Not applicable
700s	250	38	Not applicable	Not applicable
800s	275	70	60	240
900s	258	172	66	180
1000s	240	160	66	186
1100s	275	45	8	240
1200s	265	120	45	240



Assume that any increase of 5% or more from one century to the next in the amount of a given food consumed by Barras residents is due primarily to a corresponding increase in imports of that food into Barras from other villages. Given this assumption and the information provided, for each of the following, select Yes if it describes a food likely imported by Barras during times of increased food consumption. Otherwise select No.

Yes

No

- Meat from Agna from the AD 500s to the AD 600s
- Meat from Agna from the AD 800s to the AD 900s
- Grain from Cussaia from the AD 600s to the AD 700s

### Question 67

① Time Remaining 27:57  
⌚ 2 of 12

Flag for Review

Based on the information in the passage and tables, it can be determined that the average monthly meat consumption, in pounds, by the residents of Barras in the AD 1000s was which one of the following?

- 9,600
- 10,000
- 16,000
- 17,400
- 18,000

### Question 68

① Time Remaining 27:50  
⌚ 3 of 12

Flag for Review

For each of the following, select Yes if the statement is separately supported by the passage and separately supported by each of the two tables. Otherwise select No.

Yes No

- Barras's population increased from the AD 600s to 1200s.
- Agna grew no grain.
- Cussaiá traded directly only with Barras.

87  
Next →

Next →

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Loan X has a principal of \$10,000x and a yearly simple interest rate of 4%. Loan Y has a principal of \$10,000y and a yearly simple interest rate of 8%. Loans X and Y will be consolidated to form Loan Z with a principal of \$(10,000x + 10,000y) and a yearly simple interest rate of r%, where  $r = \frac{4x + 8y}{x + y}$ . In the table, select a value for x and a value for y corresponding to a yearly simple

interest rate of 5% for the consolidated loan. Make only two selections, one in each column.

X	y	Value
<input type="radio"/>	<input type="radio"/>	21
<input type="radio"/>	<input type="radio"/>	32
<input type="radio"/>	<input type="radio"/>	51
<input type="radio"/>	<input type="radio"/>	64
<input type="radio"/>	<input type="radio"/>	81
<input type="radio"/>	<input type="radio"/>	96

## Question 70

 Calculator

 Flag for Review

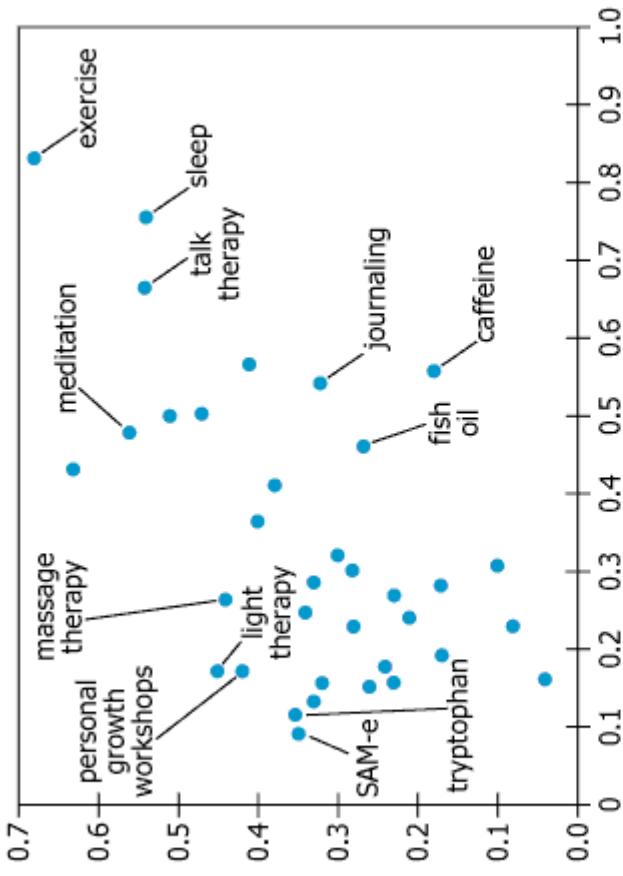
An architect is planning to incorporate several stone spheres of different sizes into the landscaping of a public park, and workers who will be applying a finish to the exterior of the spheres need to know the surface area of each sphere. The finishing process costs \$92 per square meter. The surface area of a sphere is equal to  $4\pi r^2$ , where  $r$  is the radius of the sphere. In the table, select the value that is closest to the cost of finishing a sphere with a 5.50-meter circumference as well as the cost of finishing a sphere with a 7.85-meter circumference. Make only two selections, one in each column.

Circumference 5.50 m	Circumference 7.85 m	Finishing cost
<input type="radio"/>	<input type="radio"/>	\$900
<input type="radio"/>	<input type="radio"/>	\$1,200
<input type="radio"/>	<input type="radio"/>	\$1,800
<input type="radio"/>	<input type="radio"/>	\$2,800
<input type="radio"/>	<input type="radio"/>	\$3,200
<input type="radio"/>	<input type="radio"/>	\$4,500

Swamp sparrows live in a variety of wetland habitats. Unlike most swamp sparrows, which live in freshwater habitats, the coastal-plain subspecies lives in tidal wetlands, where freshwater and seawater mix and the mud is gray rather than brown. Coastal-plain swamp sparrows differ from all other populations of swamp sparrows in having plumage that is gray brown rather than rusty brown. DNA analysis indicates several important genetic differences between swamp sparrows that inhabit tidal marshes and other subspecies of swamp sparrows. Therefore there must have been genetic-selection pressure on swamp sparrows in tidal marshes to become darker and grayer.

Select **Strengthen** for the statement that would, if true, most strengthen the argument, and select **Weaken** for the statement that would, if true, most weaken the argument. Make only two selections, one in each column.

Strengthen	Weaken
<input type="radio"/>	<input checked="" type="radio"/> None of the genetic differences that have been identified in the genomes of coastal-plain swamp sparrows and freshwater swamp sparrows affect plumage color.
<input type="radio"/>	<input checked="" type="radio"/> Mud in tidal marshes tends to be grayish because of the presence of iron sulfide, whereas freshwater mud is browner because of the presence of iron oxide.
<input type="radio"/>	<input checked="" type="radio"/> Some species of birds that live in tidal marshes do not have gray plumage.
<input type="radio"/>	<input checked="" type="radio"/> The diets of both coastal-plain and freshwater swamp sparrows can change significantly from season to season.
<input type="radio"/>	<input checked="" type="radio"/> Baby birds of the coastal-plain subspecies and baby birds of a freshwater swamp subspecies, all raised on an identical diet under controlled conditions, grew plumage similar in color to that of their respective parents.



The graphic displays results of an Internet survey on the effectiveness and popularity of various treatments for depression. The scale on the horizontal axis represents popularity,  $P$ , defined as the fraction of all respondents who tried the treatment; the scale on the vertical axis represents effectiveness,  $E$ , defined as the fraction of all respondents who considered a given treatment to be effective.

On the basis of the information provided, select from each of the drop-down menus the option that creates the most accurate statement.

The most effective treatment used by the greatest number of people is Select... ▾

- Select... ▾
- exercise
  - journaling
  - light therapy
  - massage therapy
  - meditation

Among the labeled treatments tried by more than half of the respondents, Select... ▾ was the least effective.

- Select... ▾
- coffeeine
  - fish oil
  - journaling

**Question 73 is based on the following information**

The table summarizes information in several categories about the 9 stores in a small grocery chain. The table also includes chain-wide averages where appropriate.

Store	Self-check express lanes	Self-check unlimited lanes	Pharmacy	Fuel	Restaurant	Average customer age
A	8	4	yes	no	no	34.50
B	8	6	no	no	yes	28.40
C	6	4	yes	no	yes	32.00
D	8	0	yes	no	no	50.50
E	12	4	yes	yes	no	42.50
F	8	6	no	yes	yes	34.60
G	8	0	no	yes	no	38.80
H	4	8	yes	no	yes	29.90
I	0	0	yes	yes	yes	56.70
averages	6.89	3.56	—	—	—	38.73

**Sort By:** **Store**

**Sort By:** **Self-check express**

**Sort By:** **Self-check unlimited**

Store	Self-check express lanes	Self-check unlimited lanes	Pharmacy	Fuel	Restaurant	Average customer age
D	8	0	yes	no	no	50.50
G	8	0	yes	yes	yes	38.80
I	4	0	yes	yes	yes	56.70
averages	6.89	3.56	—	—	—	34.50
A	8	4	yes	no	yes	32.00
B	8	6	no	no	yes	42.50
C	6	0	yes	yes	yes	29.90
E	12	4	yes	yes	yes	38.73
H	4	8	no	yes	no	38.80
averages	6.89	3.56	—	—	—	34.40
G	8	0	yes	no	yes	34.60
B	8	6	no	no	no	28.40
F	8	0	yes	yes	no	34.60
E	12	4	yes	yes	no	34.60

**Sort By:** **Pharmacy**

**Sort By:** **Self-check express**

**Sort By:** **Self-check unlimited**

**Sort By:** Fuel

**Average customer age**

Store	Self-check express lanes	Self-check unlimited lanes	Pharmacy	Fuel	Restaurant	Average customer age
E	12	4	yes	no	no	42.50
G	8	0	no	yes	yes	38.80
I	0	0	yes	yes	yes	56.70
averages	6.89	3.56	—	—	—	38.73
A	8	4	yes	no	no	34.50
B	8	6	no	no	no	28.40
C	6	4	yes	no	yes	32.00
D	8	0	yes	no	no	50.50
F	8	6	no	no	yes	34.60
H	4	8	yes	no	yes	29.90

**Sort By:** Average customer age

**Average customer age**

Store	Self-check express lanes	Self-check unlimited lanes	Pharmacy	Fuel	Restaurant	Average customer age
E	12	4	yes	yes	no	42.50
G	8	0	no	yes	yes	38.80
I	0	0	yes	yes	yes	56.70
averages	6.89	3.56	—	—	—	38.73
A	8	4	yes	no	no	34.50
B	8	6	no	no	no	28.40
C	6	4	yes	no	yes	32.00
D	8	0	yes	no	no	50.50
F	8	6	no	no	yes	34.60
H	4	8	yes	no	yes	29.90

**Sort By:** Restaurant

**Average customer age**

Store	Self-check express lanes	Self-check unlimited lanes	Pharmacy	Fuel	Restaurant	Average customer age
C	6	4	yes	no	yes	32.00
F	8	6	no	no	yes	34.60
H	4	8	yes	no	yes	29.90
I	0	0	yes	yes	yes	56.70
averages	6.89	3.56	—	—	—	38.73
A	8	4	yes	no	no	34.50
B	8	6	no	no	no	28.40
D	8	0	yes	no	no	50.50
E	12	4	yes	no	yes	42.50
G	8	0	no	yes	yes	38.80

### Question 73

For each of the following statements, select *True* if the statement can be verified to be true based on the information provided. Otherwise, select *False*.

True False

- In each store whose average customer age falls between 34 and 36, the number of self-check express lanes is above average.
- There is a negative correlation between the number of self-check unlimited lanes and the average customer age.
- Stores in this table that have fewer self-check express lanes than the chain-wide average are less likely to have restaurants than stores that have more self-check express lanes than the chain-wide average.

### Question 74 is based on the following information

The Consumer Price Index (CPI) measures the average prices of goods and services purchased by consumers. In the United States, the CPI-U calculates the CPI for all urban consumers.

The CPI-U is calculated based on prices of food, clothing, shelter, fuels, transportation fares, charges for doctors' and dentists' services, drugs, and other goods and services that people buy for day-to-day living. All taxes directly associated with the purchase and use of items (such as, in the United States, sales taxes) are included in the index. An increase in CPI-U by a certain fractional amount means an increase by that fractional amount in overall prices within the relevant category.

For analyzing general price trends in the economy, seasonally adjusted prices are usually preferred over unadjusted prices because adjusting eliminates the effect of changes that normally occur at the same time and in about the same magnitude every year—such as price movements resulting from climatic conditions, production cycles, model changeovers, and holidays.

**Sort By:**

Select... ▾

Percent Changes in CPI for All Urban Consumers (CPI-U), US City Average

Category	Seasonally adjusted changes from preceding month						Unadjusted 12 months ended Sep 2010
	Mar 2010	Apr 2010	May 2010	Jun 2010	Jul 2010	Sep 2010	
All items	0.1	-0.1	-0.2	-0.1	0.3	0.3	1.1
Food (all)	0.2	0.2	0	0	-0.1	0.2	1.4
Food (at home)	0.5	0.2	0	-0.1	-0.1	0	1.4
Food (away from home)	0	0.1	0.1	0	0	0.3	1.4
Energy (all)	0	-1.4	-2.9	-2.9	2.6	2.3	3.8
Gasoline (all types)	-0.8	-2.4	-5.2	-4.5	4.6	3.9	5.1
Fuel oil	0.7	2.3	-1.4	-3.2	-1.6	0.9	11.8
Energy services	1.4	-0.5	-0.5	-1.6	0.8	0.4	-0.8
Electricity	2.1	0.7	-0.4	-2.2	0.5	0.2	-0.3
All items less food and energy	0	0	0.1	0.2	0.1	0	0.8
New vehicles	0.1	0	0.1	0.1	0.1	0.3	2.1
Used cars and trucks	0.5	0.2	0.6	0.9	0.8	0.7	12.9
Apparel	-0.4	-0.7	0.2	0.8	0.6	-0.1	-0.6
Services (less energy services) (all)	0.1	0.2	0.1	0.1	0.1	0	0.8
Shelter	-0.1	0	0.1	0.1	0.1	0	-0.4
Transportation services	0.4	0.4	0.4	0	0	0.1	3.0
Medical care services	0.3	0.3	0	0.4	0	0.2	0.8
							3.7

**Sort By:**

Category



Percent Changes in CPI for All Urban Consumers (CPI-U), US City Average

Category	Seasonally adjusted changes from preceding month							Unadjusted 12 months ended Sep 2010
	Mar 2010	Apr 2010	May 2010	Jun 2010	Jul 2010	Aug 2010	Sep 2010	
All items	0.1	-0.1	-0.2	-0.1	0.3	0.3	0.1	1.1
All items less food and energy	0	0	0.1	0.2	0.1	0	0	0.8
Apparel	-0.4	-0.7	0.2	0.8	0.6	-0.1	-0.6	-1.2
Electricity	2.1	0.7	-0.4	-2.2	0.5	0.2	-0.3	1.1
Energy (all)	0	-1.4	-2.9	-2.9	2.6	2.3	0.7	3.8
Energy services	1.4	-0.5	-0.5	-1.6	0.8	0.4	-0.8	1.5
Food (all)	0.2	0.2	0	0	-0.1	0.2	0.3	1.4
Food (at home)	0.5	0.2	0	-0.1	-0.1	0	0.3	1.4
Food (away from home)	0	0.1	0.1	0.1	0	0.3	0.3	1.4
Fuel oil	0.7	2.3	-1.4	-3.2	-1.6	0.9	0.8	11.8
Gasoline (all types)	-0.8	-2.4	-5.2	-4.5	4.6	3.9	1.6	5.1
Medical care services	0.3	0.3	0	0.4	0	0.2	0.8	3.7
New vehicles	0.1	0	0.1	0.1	0.1	0.3	0.1	2.1
Services less energy services (all)	0.1	0.2	0.1	0.1	0.1	0	0.1	0.8
Shelter	-0.1	0	0.1	0.1	0.1	0	0	-0.4
Transportation services	0.4	0.4	0.4	0	0	0.1	0.3	3.0
Used cars and trucks	0.5	0.2	0.6	0.9	0.8	0.7	-0.7	12.9

95

**Sort By:**

Mar 2010



Percent Changes in CPI for All Urban Consumers (CPI-U), US City Average

Category	Seasonally adjusted changes from preceding month							Unadjusted 12 months ended Sep 2010
	Mar 2010	Apr 2010	May 2010	Jun 2010	Jul 2010	Aug 2010	Sep 2010	
Gasoline (all types)	-0.8	-2.4	-5.2	-4.5	4.6	3.9	1.6	5.1
Apparel	-0.4	-0.7	0.2	0.8	0.6	-0.1	-0.6	-1.2
Shelter	-0.1	0	0.1	0.1	0.1	0	0	-0.4
Food (away from home)	0	0.1	0.1	0.1	0	0.3	0.3	1.4
Energy (all)	0	-1.4	-2.9	-2.9	2.6	2.3	0.7	3.8
All items less food and energy	0	0	0.1	0.2	0.1	0	0	0.8
All items	0.1	-0.1	-0.2	-0.1	0.3	0.3	0.1	1.1
New vehicles	0.1	0	0.1	0.1	0.1	0.3	0.1	2.1
Services less energy services (all)	0.1	0.2	0.1	0.1	0.1	0	0.1	0.8
Food (all)	0.2	0.2	0	0	-0.1	0.2	0.3	1.4
Medical care services	0.3	0.3	0	0.4	0	0.2	0.8	3.7
Transportation services	0.4	0.4	0.4	0	0	0.1	0.3	3.0
Food (at home)	0.5	0.2	0	-0.1	-0.1	0	0.3	1.4
Used cars and trucks	0.5	0.2	0.6	0.9	0.8	0.7	-0.7	12.9
Fuel oil	0.7	2.3	-1.4	-3.2	-1.6	0.9	0.8	11.8
Energy services	1.4	-0.5	-0.5	-1.6	0.8	0.4	-0.8	1.5
Electricity	2.1	0.7	-0.4	-2.2	0.5	0.2	-0.3	1.1

**Sort By:**

Apr 2010



Percent Changes in CPI for All Urban Consumers (CPI-U), US City Average

Category	Seasonally adjusted changes from preceding month							Unadjusted 12 months ended Sep 2010
	Mar 2010	Apr 2010	May 2010	Jun 2010	Jul 2010	Aug 2010	Sep 2010	
Gasoline (all types)	-0.8	-2.4	-5.2	-4.5	4.6	3.9	1.6	5.1
Energy (all)	0	-1.4	-2.9	-2.9	2.6	2.3	0.7	3.8
Apparel	-0.4	-0.7	0.2	0.8	0.6	-0.1	-0.6	-1.2
Energy services	1.4	-0.5	-0.5	-1.6	0.8	0.4	-0.8	1.5
All items	0.1	-0.1	-0.2	-0.1	0.3	0.3	0.1	1.1
All items less food and energy	0	0	0.1	0.2	0.1	0	0	0.8
New vehicles	0.1	0	0.1	0.1	0.1	0.3	0.1	2.1
Shelter	-0.1	0	0.1	0.1	0.1	0	0	-0.4
Food (away from home)	0	0.1	0.1	0.1	0	0.3	0.3	1.4
Food (all)	0.2	0.2	0	0	-0.1	0.2	0.3	1.4
Food (at home)	0.5	0.2	0	-0.1	-0.1	0	0.3	1.4
Used cars and trucks	0.5	0.2	0.6	0.9	0.8	0.7	-0.7	12.9
Services less energy services (all)	0.1	0.2	0.1	0.1	0.1	0	0.1	0.8
Medical care services	0.3	0.3	0	0.4	0	0.2	0.8	3.7
Transportation services	0.4	0.4	0.4	0	0	0.1	0.3	3.0
Electricity	2.1	0.7	-0.4	-2.2	0.5	0.2	-0.3	1.1
Fuel oil	0.7	2.3	-1.4	-3.2	-1.6	0.9	0.8	11.8

96

**Sort By:**

May 2010



Percent Changes in CPI for All Urban Consumers (CPI-U), US City Average

	Seasonally adjusted changes from preceding month							Unadjusted 12 months ended Sep 2010
	Mar 2010	Apr 2010	May 2010	Jun 2010	Jul 2010	Aug 2010	Sep 2010	
Gasoline (all types)	-0.8	-2.4	-5.2	-4.5	4.6	3.9	1.6	5.1
Energy (all)	0	-1.4	-2.9	-2.9	2.6	2.3	0.7	3.8
Fuel oil	0.7	2.3	-1.4	-3.2	-1.6	0.9	0.8	11.8
Energy services	1.4	-0.5	-0.5	-1.6	0.8	0.4	-0.8	1.5
Electricity	2.1	0.7	-0.4	-2.2	0.5	0.2	-0.3	1.1
All items	0.1	-0.1	-0.2	-0.1	0.3	0.3	0.1	1.1
Food (all)	0.2	0.2	0	0	-0.1	0.2	0.3	1.4
Food (at home)	0.5	0.2	0	-0.1	-0.1	0	0.3	1.4
Medical care services	0.3	0.3	0	0.4	0	0.2	0.8	3.7
Food (away from home)	0	0.1	0.1	0.1	0	0.3	0.3	1.4
All items less food and energy	0	0	0.1	0.2	0.1	0	0	0.8
New vehicles	0.1	0	0.1	0.1	0.1	0.3	0.1	2.1
Services less energy services (all)	0.1	0.2	0.1	0.1	0.1	0	0.1	0.8
Shelter	-0.1	0	0.1	0.1	0.1	0	0	-0.4
Apparel	-0.4	-0.7	0.2	0.8	0.6	-0.1	-0.6	-1.2
Transportation services	0.4	0.4	0.4	0	0	0.1	0.3	3.0
Used cars and trucks	0.5	0.2	0.6	0.9	0.8	0.7	-0.7	12.9

**Sort By:**

Aug 2010



Percent Changes in CPI for All Urban Consumers (CPI-U), US City Average

Category	Seasonally adjusted changes from preceding month							Unadjusted 12 months ended Sep 2010
	Mar 2010	Apr 2010	May 2010	Jun 2010	Jul 2010	Aug 2010	Sep 2010	
Apparel	-0.4	-0.7	0.2	0.8	0.6	-0.1	-0.6	-1.2
Food (at home)	0.5	0.2	0	-0.1	-0.1	0	0.3	1.4
All items less food and energy	0	0	0.1	0.2	0.1	0	0	0.8
Services less energy services (all)	0.1	0.2	0.1	0.1	0.1	0	0.1	0.8
Shelter	-0.1	0	0.1	0.1	0.1	0	0	-0.4
Transportation services	0.4	0.4	0.4	0	0	0.1	0.3	3.0
Food (all)	0.2	0.2	0	0	-0.1	0.2	0.3	1.4
Electricity	2.1	0.7	-0.4	-2.2	0.5	0.2	-0.3	1.1
Medical care services	0.3	0.3	0	0.4	0	0.2	0.8	3.7
All items	0.1	-0.1	-0.2	-0.1	0.3	0.3	0.1	1.1
Food (away from home)	0	0.1	0.1	0.1	0	0.3	0.3	1.4
New vehicles	0.1	0	0.1	0.1	0.1	0.3	0.1	2.1
Energy services	1.4	-0.5	-0.5	-1.6	0.8	0.4	-0.8	1.5
Used cars and trucks	0.5	0.2	0.6	0.9	0.8	0.7	-0.7	12.9
Fuel oil	0.7	2.3	-1.4	-3.2	-1.6	0.9	0.8	11.8
Energy (all)	0	-1.4	-2.9	-2.9	2.6	2.3	0.7	3.8
Gasoline (all types)	-0.8	-2.4	-5.2	-4.5	4.6	3.9	1.6	5.1

97

**Sort By:**

Sep 2010



Percent Changes in CPI for All Urban Consumers (CPI-U), US City Average

Category	Seasonally adjusted changes from preceding month							Unadjusted 12 months ended Sep 2010
	Mar 2010	Apr 2010	May 2010	Jun 2010	Jul 2010	Aug 2010	Sep 2010	
Energy services	1.4	-0.5	-0.5	-1.6	0.8	0.4	-0.8	1.5
Used cars and trucks	0.5	0.2	0.6	0.9	0.8	0.7	-0.7	12.9
Apparel	-0.4	-0.7	0.2	0.8	0.6	-0.1	-0.6	-1.2
Electricity	2.1	0.7	-0.4	-2.2	0.5	0.2	-0.3	1.1
All items less food and energy	0	0	0.1	0.2	0.1	0	0	0.8
Shelter	-0.1	0	0.1	0.1	0.1	0	0	-0.4
All items	0.1	-0.1	-0.2	-0.1	0.3	0.3	0.1	1.1
New vehicles	0.1	0	0.1	0.1	0.1	0.3	0.1	2.1
Services less energy services (all)	0.1	0.2	0.1	0.1	0.1	0	0.1	0.8
Food (all)	0.2	0.2	0	0	-0.1	0.2	0.3	1.4
Food (at home)	0.5	0.2	0	-0.1	-0.1	0	0.3	1.4
Food (away from home)	0	0.1	0.1	0.1	0	0.3	0.3	1.4
Transportation services	0.4	0.4	0.4	0	0	0.1	0.3	3.0
Energy (all)	0	-1.4	-2.9	-2.9	2.6	2.3	0.7	3.8
Fuel oil	0.7	2.3	-1.4	-3.2	-1.6	0.9	0.8	11.8
Medical care services	0.3	0.3	0	0.4	0	0.2	0.8	3.7
Gasoline (all types)	-0.8	-2.4	-5.2	-4.5	4.6	3.9	1.6	5.1

**Sort By:****Unadjusted 12 months ended Sep 2010**

Percent Changes in CPI for All Urban Consumers (CPI-U), US City Average

Category	Seasonally adjusted changes from preceding month							Unadjusted 12 months ended Sep 2010
	Mar 2010	Apr 2010	May 2010	Jun 2010	Jul 2010	Aug 2010	Sep 2010	
Apparel	-0.4	-0.7	0.2	0.8	0.6	-0.1	-0.6	-1.2
Shelter	-0.1	0	0.1	0.1	0.1	0	0	-0.4
All items less food and energy	0	0	0.1	0.2	0.1	0	0	0.8
Services less energy services (all)	0.1	0.2	0.1	0.1	0.1	0	0.1	0.8
All items	0.1	-0.1	-0.2	-0.1	0.3	0.3	0.1	1.1
Electricity	2.1	0.7	-0.4	-2.2	0.5	0.2	-0.3	1.1
Food (all)	0.2	0.2	0	0	-0.1	0.2	0.3	1.4
Food (at home)	0.5	0.2	0	-0.1	-0.1	0	0.3	1.4
Food (away from home)	0	0.1	0.1	0.1	0	0.3	0.3	1.4
Energy services	1.4	-0.5	-0.5	-1.6	0.8	0.4	-0.8	1.5
New vehicles	0.1	0	0.1	0.1	0.1	0.3	0.1	2.1
Transportation services	0.4	0.4	0.4	0	0	0.1	0.3	3.0
Medical care services	0.3	0.3	0	0.4	0	0.2	0.8	3.7
Energy (all)	0	-1.4	-2.9	-2.9	2.6	2.3	0.7	3.8
Gasoline (all types)	-0.8	-2.4	-5.2	-4.5	4.6	3.9	1.6	5.1
Fuel oil	0.7	2.3	-1.4	-3.2	-1.6	0.9	0.8	11.8
Used cars and trucks	0.5	0.2	0.6	0.9	0.8	0.7	-0.7	12.9

**Question 74**

For each of the following, select Yes if the statement is inferable from the given information. Otherwise select No.

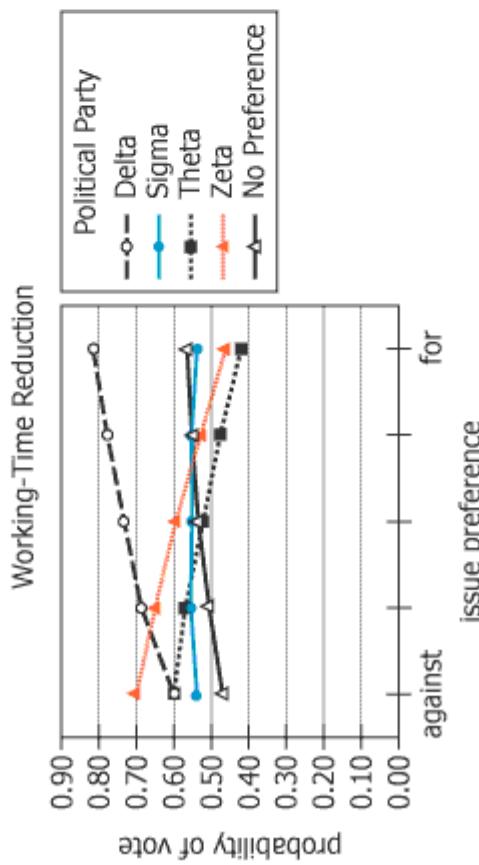
Yes No

- The changes in seasonally adjusted prices for used cars and trucks between March 2010 and September 2010 were in most cases less in magnitude than the changes in seasonally adjusted prices of new vehicles for the same period.
- The seasonally adjusted CPI-U for all items was higher in March 2010 than in the previous month.
- The seasonally unadjusted change in the price of new vehicles in August 2010 over the previous month was about the same as the seasonally unadjusted change in the price of food away from home over the same period.

## Question 75

[Flag for Review](#)

The graph shows the effect of voters' previously stated preference regarding the issue of working-time reduction on the probability of those voters' actual choice being the same as that stated preference. Using the drop-down menus, fill in the blanks to make the most accurate statements based on the graph.



issue preference

for

against

Members of the  party are most apt to vote according to their previously stated preference regarding the issue of working-time reduction.

Members of the  party are most apt to vote against the issue of working-time reduction if their previously stated preference regarding the issue of working-time reduction was also against.

 Select... ▾

Delta

Sigma

Theta

Zeta

No Preference

Advice from a computer security expert, on passwords used for accessing online accounts:

Computer users should use a different password for each online account. They should also use *strong passwords*, which are hard for hackers to decipher. However, strong passwords are difficult to remember, and this is especially the case for users who have multiple online accounts.

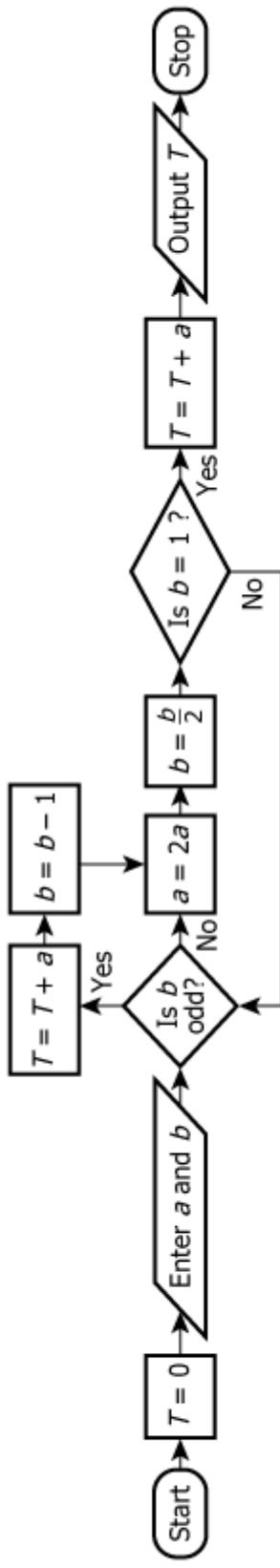
Fortunately, software is available for little or no cost that can store and encrypt a user's passwords: the user need only remember one password to access the rest. For users willing to take the time to install the software on a computer and enter all the required data, such software provides one way to comply with security expert's advice. Some versions of the software can even be copied to a portable device, such as a USB drive, whereby a user can access passwords from any compatible computer.

For a computer user with multiple accounts who would not otherwise use a different strong password on every account, the expert's advice amounts to suggesting that users make certain sacrifices in order to make certain gains. Indicate by appropriate selections in the first and second column which of the items in the third column would describe a sacrifice for this user and which would be a gain. Make only two selections, one in each column.

Sacrifice	Gain	
<input type="radio"/>	<input checked="" type="radio"/>	Money
<input type="radio"/>	<input checked="" type="radio"/>	Computing speed
<input type="radio"/>	<input checked="" type="radio"/>	Security
<input type="radio"/>	<input checked="" type="radio"/>	Number of online accounts
<input type="radio"/>	<input checked="" type="radio"/>	Time

### Question 77

Flag for Review



The flowchart represents a mathematical algorithm that takes two positive integers as the input and returns a positive integer as the output. Processes are indicated in the rectangular symbols in the flowchart. Each process is symbolized by an equation, such as  $T = T + a$ . In this particular process, the current values of the variables  $T$  and  $a$  are added together and the sum then becomes the value of  $T$ . For example, if the value of  $T$  is 3 and the value of  $a$  is 7 before the process  $T = T + a$  is completed, then the value of  $T$  is 10 and the value of  $a$  is 7 after the process is completed.

Use the drop-down menus to fill in the blanks in the following statements based on the algorithm represented by the flowchart.

If 24 and 35 are entered as the values for  $a$  and  $b$ , respectively, then the first nonzero value of  $T$  is

Select... ▾

- Select...
- 24
- 48
- 96
- 192
- 384

If 35 and 27 are entered as the values for  $a$  and  $b$ , respectively, then after the process  $b = \frac{b}{2}$  is completed for the second time, the value of  $b$  is

Select... ▾

- 3
- 6
- 12
- 13
- 26







