

GMAT单项课程 IR

主讲人：小树老师

大纲

1

IR综述和备考

2

题型和考试工具使用

3

题型分析

4

例题讲解

第一部分：IR综述和备考

○ IR是什么？

Integrated Reasoning 综合推理

⑩ 对文字材料和数学材料进行综合分析和处理能力

⑩ $V + Q + \text{Vor } Q$

⑩ 统计学

○ IR的备考策略是什么？

⑩ 考前1-2周开始准备

⑩ 重点在熟悉题型和做题技巧

IR综述

○ IR部分考试时怎样进行的？

- ⑩ 考试时间 **30分钟**
- ⑩ 题目数量 **12题**
- ⑩ 满分**8分** $\sqrt{8}$ 或**9个以上**
- 单独记分

IR部分的难点

- 信息量大 时间紧张
- 信息多导致小陷阱多
- 新题型 题目类型多



IR部分的目标

6分左右

30分钟，每题4min.

放慢节奏 保证正确率

做一道 对一道

使用材料

OG50题 机经

题目变化多端，形式不变

第二部分：IR题型和考试工具的使用

IR题型分为4种

- **moulti-source**

多源分析

- **table**

表格题

- **Graphics**

图形题

- **Two-parts**

multi-souce

最难的难点

文章部分+表格部分+图形部分

考题 3-4题 : 一个单选（类似阅读）+2×3小问题

每题三小问 全对才记分

策略 静心读文章 标记重点，切勿猜题

table

送分题 2题

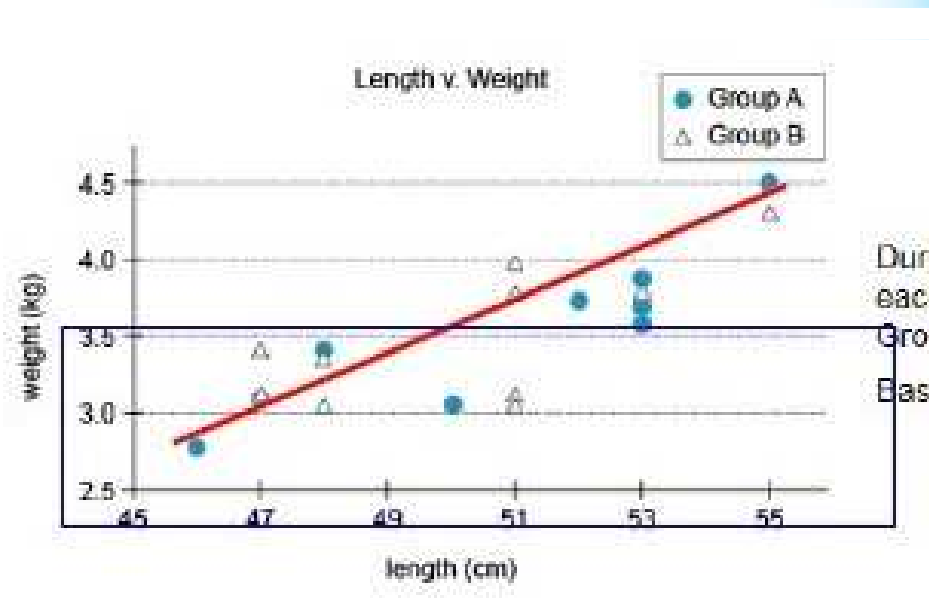
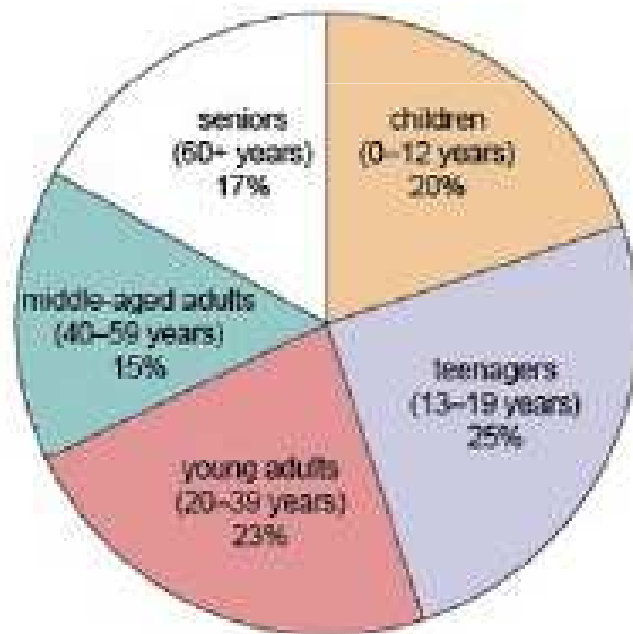
读表顺序

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

Graphics

送分题 3 题

图中每个部分的意义 和走势



two-part

相对有难度 4题

数学two part & 逻辑two-part

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

IR工具的使用

○ table题目中筛选工具的使用

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

IR 工具使用

○ 计算器的使用

MR：读出独立内存数字（Read M中的）

MS：将显示数字保存到独立内存，并取代内存中原有数字
（Save M中的）

M+：将显示数字向独立内存累加

（独立内存是一个临时寄放数字的存储器，方便计算）

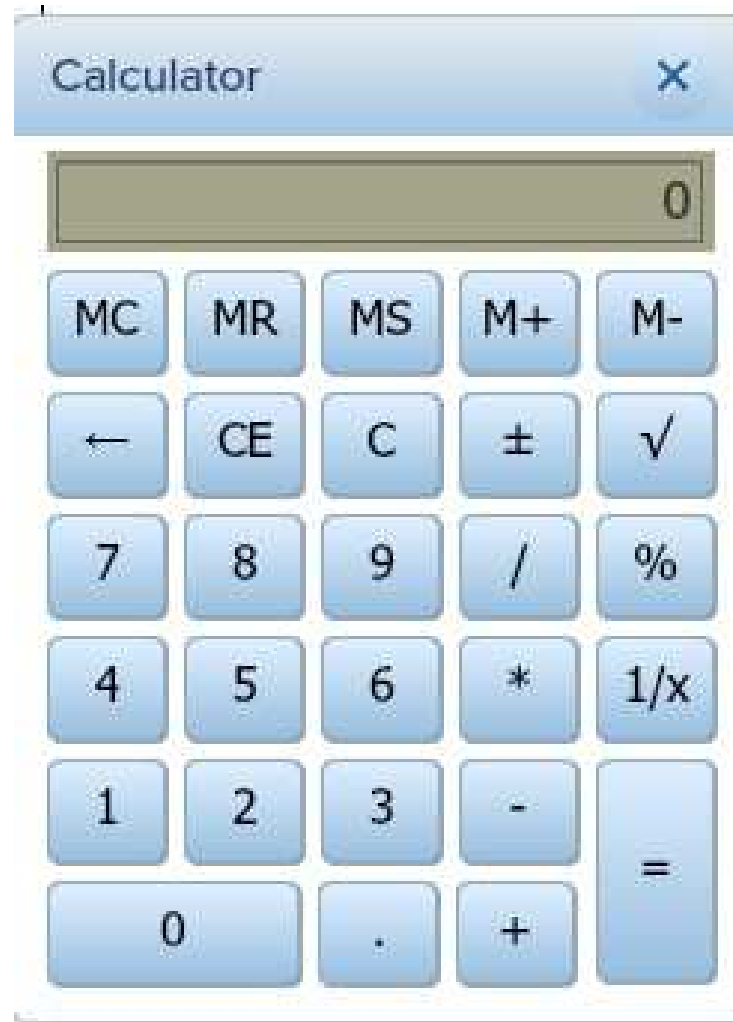
CE：纠错键(CLEAR ERROR)。

输入数字有错，按它可以重新输入

CA：全部清除

BS：逐个清除

IR 工具使用



IR工具的使用

moulti-source 中行数的定位作用

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.

第三部分：题型分析

合理应用题目本身的条件和资源

Multi-sources

文章部分：

记录陌生概念和数字 对应行

表格部分： 看表头

图形部分： 看横纵轴表示什么

题目部分

1 将文字转换成数学语言 Y N 分别表示什么

2 找到对应文章中的概念

3 找对应图或者表中的数值或者走势

文章中的条件是否在做题中运用到了。

Table

表头的意义

所有表格题目的上方文字 都是对表头的描述

但是需要注意的是

描述结束后的追加定义！

合理应用筛选功能，节约时间

Graphics

- 看图表的横纵轴意义

图表上方文字是对表的横纵轴的描述
需要注意的是和**table**题目一样
描述完的追加条件

(***@o@***)

Two part

- 数学题目 2题

- 1 列出方程或者函数表达式

- 2 根据答案之一的选项代入进行结果测试

- 3 注意谁大谁小 切勿马虎

Two part

逻辑部分

- 1 看完条件后 同时看5个选项
- 2 找出互为因果关系的两个选项
- 3 看准对应要求进行选择 切勿马虎

第四部分 例题讲解

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.

第四部分 例题讲解

Article Weekend Conferences

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

第四部分 例题讲解

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 type="radio"/>	CC
1B.	<input type="radio"/>	<input type="radio"/>	FFNA
1C.	<input type="radio"/>	<input type="radio"/>	HMHPA

第四部分 例题讲解

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 type="radio"/>	Asiawest Center
2B.	<input type="radio"/>	<input type="radio"/>	Bard Inn
2C.	<input type="radio"/>	<input type="radio"/>	Hilton

第四部分 例题讲解

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. $2(X-Y)$

第四部分 例题讲解

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 type="radio"/>	CC
4B.	<input type="radio"/>	<input type="radio"/>	FFNA
4C.	<input type="radio"/>	<input type="radio"/>	PPOA

第四部分 例题讲解

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	
SA.	<input type="radio"/>	<input type="radio"/>	Speaker hired by a conference on education to speak about school reform
SB.	<input type="radio"/>	<input type="radio"/>	Room service waiter at the host hotel whose earnings are primarily from gratuities
SC.	<input type="radio"/>	<input type="radio"/>	Salaried front desk manager at the host hotel

第四部分 例题讲解

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

第四部分 例题讲解

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	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

第四部分 例题讲解

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 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 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 type="radio"/>	Each serving listed for which total fiber is less than 3.0 g also has at most 10 g of carbohydrate.

第四部分 例题讲解



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.

第四部分 例题讲解

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

Select... ▼
Select...
3
3.12
3.48
3.98

weeks is

25 B. The number of respondents who exercised on average less than one-half hour per day

Select... ▼
Select...
0 and 5
5 and 8
8 and 10
10 and 14
14 and 19

during the week is between , inclusive.

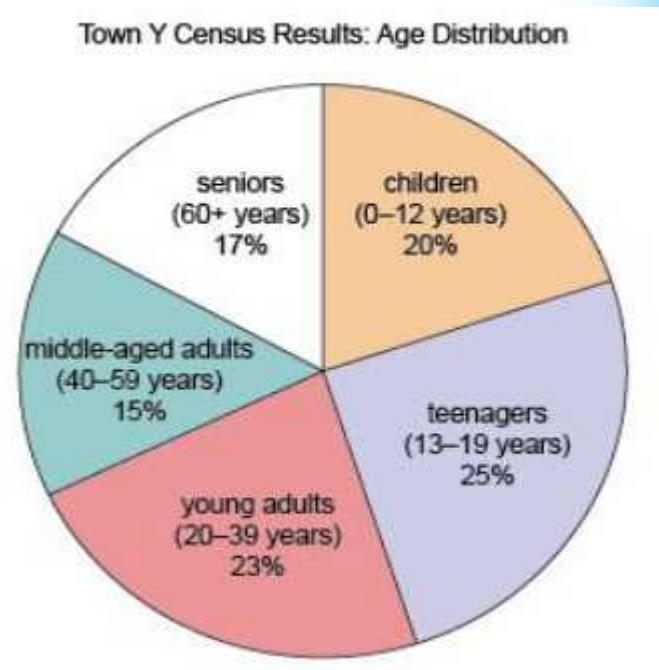
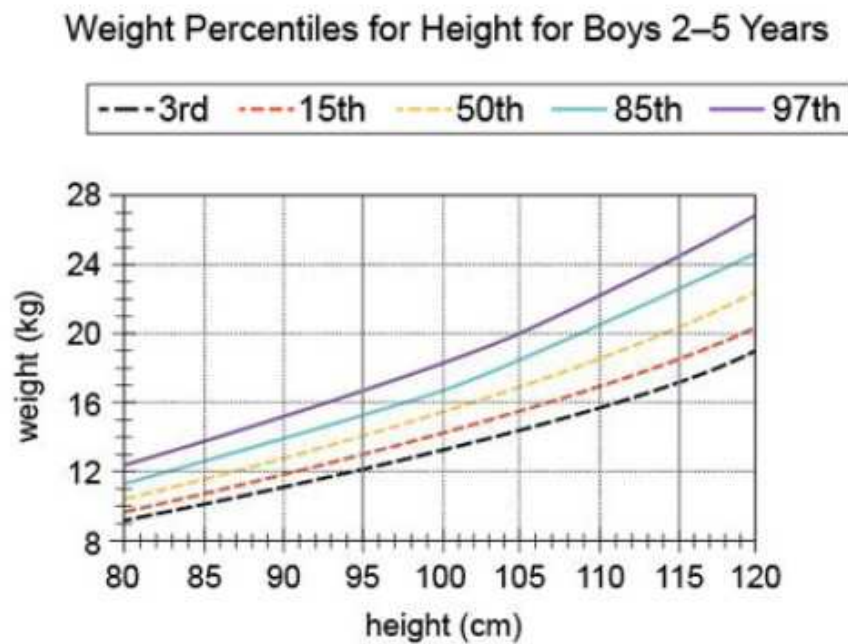
第四部分 例题讲解

“统计思维”要求熟悉相关的统计概念和知识：如样本的选择、中心趋势和可变性、分布、数据测量误差的危害、统计差异、相关与回归

回忆一下我们见过的统计图形

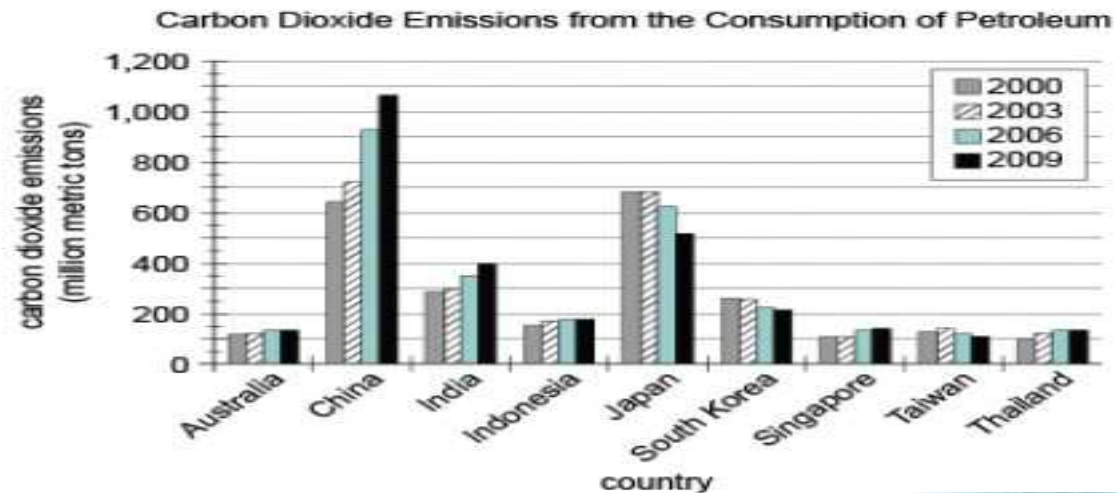
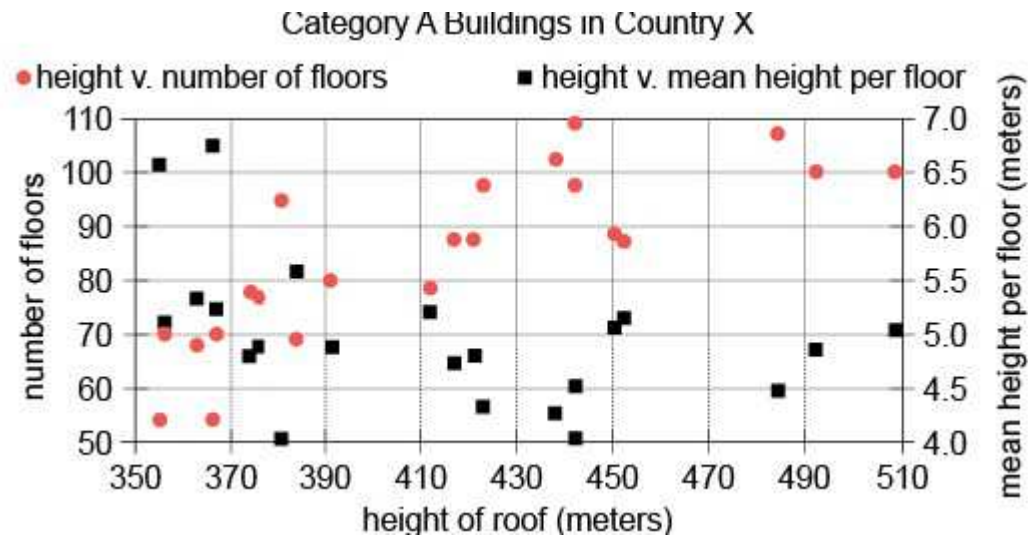
第四部分 例题讲解

回忆一下我们见过的统计图形



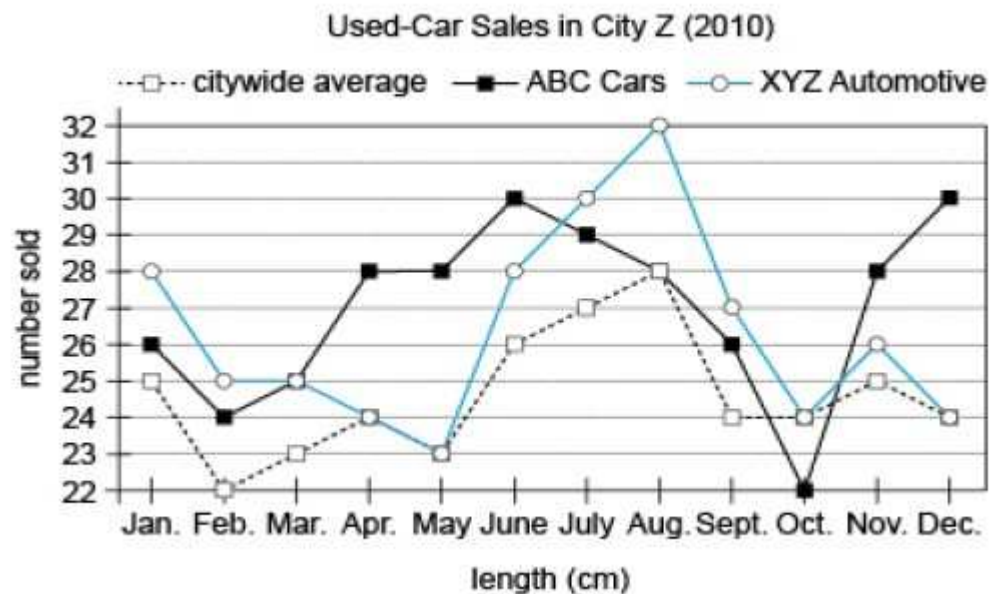
第四部分 例题讲解

回忆一下我们见过的统计图形



第四部分 例题讲解

回忆一下我们见过的统计图形



第四部分 例题讲解

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.

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

第四部分 例题讲解

For each positive integer n , the quantity s_n is defined such that

$$s_{n+2} = (s_n)^2 - s_{n+1}. \text{ In addition, } s_2 = 1.$$

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.

	46A.	46B.	
	s_1	s_4	
A	<input type="radio"/>	<input type="radio"/>	-12
B	<input type="radio"/>	<input type="radio"/>	-7
C	<input type="radio"/>	<input type="radio"/>	-3
D	<input type="radio"/>	<input type="radio"/>	-1
E	<input type="radio"/>	<input type="radio"/>	0

The background is a solid light blue on the left, transitioning into a series of dynamic, flowing, darker blue lines that curve from the top left towards the bottom right, creating a sense of movement and depth.

Thank You !