

SAT数学

张斯乐



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◆ 2.Problem Solving & Data Analysis

2.2 Table Data (Conditional Probability)

此类题目是一种特殊的表格条件概率，是一种较为易错的题型需要单独关注。

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◆ 2.2 Table Data (Conditional Probability)

1.

Type of surgeon	Major professional activity		Total
	Teaching	Research	
General	258	156	414
Orthopedic	119	74	193
Total	377	230	607

If one of the surgeons is selected at random, which of the following is closest to the probability that the selected surgeon is an orthopedic surgeon whose indicated professional activity is research?

2.2 Table Data (Conditional Probability)

2.

Ice Cream and Topping Selections		Flavor	
		Vanilla	Chocolate
Topping	Hot fudge	8	6
	Caramel	5	6

Each person chose one flavor of ice cream and one topping. Of the people who chose vanilla ice cream, what fraction chose hot fudge as a topping?

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2.2 Table Data (Conditional Probability)

3.

	5 out of 5	4 out of 5	3 out of 5	2 out of 5	1 out of 5	0 out of 5	Total
Day 1	2	3	4	6	2	3	20
Day 2	2	3	5	5	4	1	20
Day 3	3	3	4	5	3	2	20
Total	7	9	13	16	9	6	60

No contestant received the same score on two different days. If a contestant is selected at random, what is the probability that the selected contestant received a score of 5 on Day 2 or Day 3, given that the contestant received a score of 5 on one of the three days?

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◆ 2.2 Table Data (Conditional Probability)

4.

Number of Adults Contracting Colds			
	Cold	No cold	Total
Vitamin C	21	129	150
Sugar pill	33	117	150
Total	54	246	300

A random sample of 300 adults received either a vitamin C pill or a sugar pill each day during a 2-week period, and the adults reported whether they contracted a cold during that time period. What proportion of adults who received a sugar pill reported contracting a cold?

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2.2 Table Data (Conditional Probability)

5.

Majors	Career				
	Law	Medicine	Teaching	Other	Total
English	23	5	32	30	90
Biology	2	78	20	10	110
Political Science	54	1	9	16	80
Economics	13	10	17	80	120
Total	92	94	78	136	400

Based on the table, what proportion of students who majored in political science did not have a career in law, medicine, or teaching directly after college?

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◆ 2.2 Table Data (Conditional Probability)

作业讲解-第6题到第11题

◆ 2.2 Table Data (Conditional Probability)

6.

Book type	US	British
Paperbacks	40	45
Hardcovers	90	75

A historian has a collection of 250 books about US and British history. The distribution of the books is shown in the table above. If a hardcover book is to be selected at random, what is the probability that the book will be a US history book?

2.2 Table Data (Conditional Probability)

7.

Rock classifications				
Rock color	Igneous	Metamorphic	Sedimentary	Total
Black	16	3	1	20
Brown	8	11	45	64
Gray	14	0	38	52
Red	22	0	6	28
Pink	9	0	0	9
Tan	0	7	1	8
White	4	14	19	37
Total	73	35	110	218

A student selects a rock at random and notices it is gray. Given this information, which of the following is closest to the probability that the selected rock is sedimentary?

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2.2 Table Data (Conditional Probability)

8.

Type	Source	
	Groundwater	Surface water
Fresh	592	1,340
Saline	0.01	5,460

In 2005, New Jersey had an estimated population of 8,720,000. Which of the following is closest to the proportion of estimated daily usage of surface water that was fresh?

◆ 2.2 Table Data (Conditional Probability)

9.

Musical works	Composer	
	Mozart	Haydn
Symphony	61	106
Concerto	79	45
Piano music	68	19
Opera	23	29

If a concerto composed by one of these composers is selected random, what is the probability that Haydn was the composer?

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◆ 2.2 Table Data (Conditional Probability)

10.

		Nickel	
		Heads	Tails
Dime	Heads	592	1,340
	Tails	0.01	5,460

For what percent of the tosses did the dime Michael tossed land on heads?

◆ 2.2 Table Data (Conditional Probability)

11.

	Century		
	18th	19th	20th
Northeast	5	6	3
South	9	4	3
Midwest	0	9	2
West	0	0	2

Based on the information in the table, what fraction of presidents who were not born in the nineteenth century were born in the South?

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Thanks

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