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新东方在线

Table data

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1.Guilherme asked 10th and 11th graders at his school which sport they preferred between basketball and football. The table below partially shows the results. Given that 20% of students in Guilherme's school who prefer football are in 10th grade, how many 11th graders at his school prefer basketball?

Preferred Sport	10^{th} graders	11^{th} graders	Total
Football	30	___	___
Basketball	___	___	136
Total	___	166	___

A. 27
B. 46
C. 120
D. 150

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2.A science textbook has four chapters, each with a number of skills problems and of analysis problems. A table representing this information is on the left. Based on the table, which of the following statements is true?

A. The relative frequency of analysis problems coming from chapter 4 is $\frac{4}{39}$.

B. The relative frequency of analysis problems coming from chapter 2 is $\frac{21}{89}$.

C. The relative frequency of problems in chapter 1 being skills problems is $\frac{12}{23}$.

D. The relative frequency of problems in chapter 2 being skills problems is $\frac{2}{3}$.

Chapter	Skills problems	Analysis problems	Total
Chapter 1	11	12	23
Chapter 2	10	11	21
Chapter 3	6	12	18
Chapter 4	[illegible]	[illegible]	[illegible]
Total	50	39	89

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3.Victor decides to try three different routes to work for a period of 40 days. In the table above, he tracked whether he arrived to work late or on time each time that he used a particular route. According to the table, what is the probability that Victor was late when he used Route A?

A. $\frac{3}{20}$
B. $\frac{2}{9}$
C. $\frac{3}{5}$
D. $\frac{6}{11}$

	On time	Late	Total
Route A	5	6	11
Route B	2	10	12
Route C	6	11	17
Total	13	27	40

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4.Geometry students participated in an activity to classify the shapes in the room by number of sides and color. The table above displays the results. If a triangle is chosen at random from this activity, what is the probability that it is blue?

A. $\frac{3}{16}$
B. $\frac{1}{8}$
C. $\frac{1}{2}$
D. $\frac{3}{4}$

	Red	Blue	Total
Triangles	1	3	4
Quadrilaterals	2	6	8
Pentagons	5	7	12
Total	8	16	24

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5.Donte and his friends ordered pizza for a birthday party. They asked all the guests at the party whether they wanted sauce or no sauce and whether they wanted cheese or no cheese. The results are displayed in the table above. Donte found that 1/5 of the people who wanted cheese did not want sauce. What fraction of the people who wanted sauce also wanted cheese?

	Cheese	No cheese	Total
Sauce	___	___	18
No sauce	___	___	8
Total	20	6	26

A. 1/9
B. 8/13
C. 4/5
D. 8/9

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