	Fed only dry food	Fed both wet and dry food	Total
Cats	5	11	16
Dogs	2	23	25
Total	7	34	41

The table above shows the kinds of foods that are fed to the cats and dogs currently boarded at a pet care facility. What fraction of the dogs are fed only dry food?

- A)  $\frac{2}{4}$
- C)  $\frac{7}{41}$
- B)  $\frac{2}{25}$
- D)  $\frac{2}{7}$

8

Ice Cream and Topping Selections

		Flavor		
		Vanilla Chocolate		
Topping	Hot fudge	8		
Topping	Caramel	5	6	

The table above shows the flavors of ice cream and the toppings chosen by the people at a party. 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?

- A)  $\frac{8}{25}$
- C)  $\frac{13}{25}$
- B)  $\frac{5}{13}$
- D)  $\frac{8}{13}$

10

Lani spent 15% of her 8-hour workday in meetings. How many minutes of her workday did she spend in meetings?

- A) 1.2
- B) 15
- C) 48
- D) 72

6.6 480(.15)=

## Customer Purchases at a Gas Station

	Beverage purchased	Beverage not purchased	Total	
Gasoline purchased	60	25	85	
Gasoline not purchased	35	15	50	
Total	95	40	135	

On Tuesday, a local gas station had 135 customers. The table above summarizes whether or not the customers on Tuesday purchased gasoline, a beverage, both, or neither. Based on the data in the table, what is the probability that a gas station customer selected at random on that day did <u>not</u> purchase gasoline?

- A)  $\frac{15}{50}$
- C)  $\frac{35}{50}$
- B)  $\frac{15}{40}$
- D)  $\frac{50}{135}$

18

## Survey Results

Answer	Percent		
Never	31.3%		
Rarely	24.3%		
Often	13.5%		
Always	30.9%		



The table above shows the results of a survey in which tablet users were asked how often they would watch video advertisements in order to access streaming content for free. Based on the table, which of the following is closest to the probability that a tablet user answered "Always," given that the tablet user did not answer "Never"?

- A) 0.31
- C) 0.45
- B) 0.38
- D) 0.69

30

Year	Subscriptions sold
2012	5,600
2013	5.880

The manager of an online news service received the report above on the number of subscriptions sold by the service. The manager estimated that the percent increase from 2012 to 2013 would be double the percent increase from 2013 to 2014. How many subscriptions did the manager expect would be sold in 2014?

- A) 6,020
- C) 6,440
- B) 6,027
- D) 6,468

## Number of Registered Voters in the United States in 2012, in Thousands

	Age, in years					
Region	18 to 24	25 to 44	45 to 64	65 to 74	75 and older	Total
Northeast	2,713	8,159	10,986	3,342	2,775	27,975
Midwest	3,453	11,237	13,865	4,221	3,350	36,126
South	5,210	18,072	21,346	7,272	4,969	56,869
West	3,390	10,428	11,598	3,785	2,986	32,187
Total	14,766	47,896	57,795	18,620	14,080	153,157

The table above shows the number of registered voters in 2012, in thousands, in four geographic regions and five age groups. Based on the table, if a registered voter who was 18 to 44 years old in 2012 is chosen at random, which of the following is closest to the probability that the registered voter was from the Midwest region?

- A) 0.10
- B) 0.25
- C) 0.40
- D) 0.75

13

		Algebra I	Geometry	Algebra II	Total
Gender	Female	35	53	62	150
Gender	Male	44	59	57	160
	Total	79	112	119	310

A group of tenth-grade students responded to a survey that asked which math course they were currently enrolled in. The survey data were broken down as shown in the table above. Which of the following categories accounts for approximately 19 percent of all the survey respondents?

- A) Females taking Geometry
- C) Males taking Geometry
- B) Females taking Algebra II
- D) Males taking Algebra I

## Questions 22 and 23 refer to the following information.

Annual Budgets for Different Programs in Kansas, 2007 to 2010

Риссина	Year				
Program	2007	2008	2009	2010	
Agriculture/natural resources	373,904	358,708	485,807	488,106	
Education	2,164,607	2,413,984	2,274,514	3,008,036	
General government	14,347,325	12,554,845	10,392,107	14,716,155	
Highways and transportation	1,468,482	1,665,636	1,539,480	1,773,893	
Human resources	4,051,050	4,099,067	4,618,444	5,921,379	
Public safety	263,463	398,326	355,935	464,233	

The table above lists the annual budget, in thousands of dollars, for each of six different state programs in Kansas from 2007 to 2010.

22

Which of the following best approximates the average rate of change in the annual budget for agriculture/natural resources in Kansas from 2008 to 2010?

- A) \$50,000,000 per year
- B) \$65,000,000 per year
- (C) \$75,000,000 per year
- D) \$130,000,000 per year

Of the following, which program's ratio of its 2007 budget to its 2010 budget is closest to the human resources program's ratio of its 2007 budget to its 2010 budget?

- A) Agriculture/natural resources
- B) Education
- C) Highways and transportation
- D) Public safety