#1 ID: b1b5300b

	Prices of 14 Different Cars			
	Type of	Priced at no	Priced	
	Type of car	more	greater	Total
		than \$25,000	than \$25,000)
	Nonhybrid	5	3	8
	Hybrid	2	4	6
	Total	7	7	14

The table above shows information about 14 cars listed for sale on an auto dealership's website. If one of the cars listed for sale is selected at random, what is the probability that the car selected will be a hybrid car priced at no more than \$25,000 ?

- **A**) 1
- B)
- C) $\frac{1}{3}$
- D)

#2	ID: e1ad3d41
	ID. CIUUSUTI

Coat color	Eye color		
	Deep	blue Light brow	n Total
Cream-tortoiseshell	16	16	32
Chocolate	12	4	16
Total	28	20	48

The data on the coat color and eye color for 48 Himalayan kittens available for adoption were collected and summarized in the table above. What fraction of the chocolate-colored kittens has deep blue eyes?

- A) $\frac{12}{48}$
- B) $\frac{12}{28}$
- C) $\frac{16}{32}$
- D) $\frac{12}{16}$

#3 ID: 0301c5dc

The table below shows the number of state parks in a certain state that contain camping facilities and bicycle paths.

Has bicycle Does not have paths bicycle paths

Has camping facilities

Does not have camping facilities

8 4

If one of these state parks is selected at random, what is the probability that it has camping facilities but does not have bicycle paths?

- A) $\frac{5}{37}$
- B) $\frac{5}{25}$
- C) $\frac{8}{28}$
- D) $\frac{5}{9}$

#4 ID: 0ae37ff3

In a bag, there are 7 red, 4 white, 33 blue, and 33 yellow cubes. If one of these cubes is selected at random, what is the probability of selecting a cube that is <u>neither</u> blue <u>nor</u> yellow?

- A) $\frac{6}{7}$
- B) 7
- C) $\frac{1}{3}$
- D) $\frac{1}{7}$

#5 ID: 1fc4f47b

At a movie theater, there are a total of 350 customers. Each customer is located in either theater A, theater B, or theater C. If one of these customers is selected at random, the probability of selecting a customer who is located in theater A is 0.48, and the probability of selecting a customer who is located in theater B is 0.24. How many customers are located in theater C?

- A) 28
- B) 40
- C) 84
- D) 98

#6 ID: 2df8f293

Each vertex of a 14-sided polygon is labeled with one of the 14 letters A through N, with a different letter at each vertex. If one vertex is selected at random, what is the probability that the letter D will be at the selected vertex? (Express your answer as a decimal or fraction, not as a percent.)

#**7** ID: 912cd125

For a science project, Anka recorded whether it rained each weekday and weekend day for 12 weeks. Her results are summarized in the table below.

Weekday and Weekend Day Rain for 12

Weeks

Rain No rain Total

Number of weekdays 12 48 60

Number of weekend days 8 16 24

Total 20 64 84

If one of the days on which there was no rain is selected at random, what is the probability the day was a weekend day?

- A) $\frac{4}{21}$
- B) 1/2
- C) $\frac{2}{3}$
- D) $\frac{3}{4}$

#8 ID: 30db8f77

At a conference, there are a total of 275 attendees. Each attendee is assigned to either group A, group B, or group C. If one of these attendees is selected at random, the probability of selecting an attendee who is assigned to group A is 0.44 and the probability of selecting an attendee who is assigned to group B is 0.24. How many attendees are assigned to group C?

#9 ID: 38a9ac45

If 1,200 customers register for new accounts at a social media website every day, what fraction of the first 60,000 new accounts are registered in the first 5 days?

- A) $\frac{1}{5}$
- B) $\frac{1}{10}$
- C) 1
- D) $\frac{1}{50}$

#10 ID: b6569d0e

United States

Presidents

from 1789 to

2015

Ages Number

40-442

45-497

50-5413

55-59 11

60-647

65-693

The table above gives the number of United States presidents from 1789 to 2015 whose age at the time they first took office is within the interval listed. Of those presidents who were at least 50 years old when they first took office, what fraction were at least 60 years old?

- A) $\frac{10}{43}$
- B) $\frac{10}{24}$
- C) $\frac{10}{24}$
- D) $\frac{25}{34}$

#11 ID: a3384df0

Penguin Exhibit

Type of penguin Male Female Total

Chinstrap	41	59	100
Emperor	8	27	35
Gentoo	49	54	103
Macaroni	42	40	82
Total	140	180	320

The number of penguins in a zoo exhibit, sorted by gender and type of penguin, is shown in the table above. Which type of penguin has a female population that is the closest to being $\frac{1}{3}$ of the total female penguin population in the exhibit?

- A) Chinstrap
- B) Emperor
- C) Gentoo
- D) Macaroni

#12 ID: 46b2e169

A box contains 13 red pens and 37 blue pens. If one of these pens is selected at random, what is the probability of selecting a red pen? (Express your answer as a decimal or fraction, not as a percent.) #13 ID: f8696cd8

	Human Resources	Accounting
Bachelor's degree	4	3
Master's degree	2	6

The table above shows the number of people who work in the Human Resources and Accounting departments of a company and the highest level of education they have completed. A person from one of these departments is to be chosen at random. If the person chosen works in the Human Resources department, what is the probability that the highest level of education the person completed is a master's degree?

- A) $\frac{2}{15}$
- B) $\frac{1}{3}$
- **C**) 1
- D) $\frac{8}{15}$

#14 ID: e9ed719f

The table summarizes the distribution of color and shape for 100 tiles of equal area.

	Red	Blue	Yellow	Total
Square	10	20	25	55
Pentagon	20	10	15	45
Total	30	30	40	100

If one of these tiles is selected at random, what is the probability of selecting a red tile? (Express your answer as a decimal or fraction, not as a percent.)