

#1

ID: 707db2d3

For the finale of a TV show, viewers could use either social media or a text message to vote for their favorite of two contestants. The contestant receiving more than 50% of the vote won. An estimated 10% of the viewers voted, and 30% of the votes were cast on social media. Contestant 2 earned 70% of the votes cast using social media and 40% of the votes cast using a text message. Based on this information, which of the following is an accurate conclusion?

- A) If all viewers had voted, Contestant 2 would have won.
- B) Viewers voting by social media were likely to be younger than viewers voting by text message.
- C) If all viewers who voted had voted by social media instead of by text message, Contestant 2 would have won.
- D) Viewers voting by social media were more likely to prefer Contestant 2 than were viewers voting by text message.

#2

ID: 63573fea

During the first month of sales, a company sold 1,300,000 units of a certain type of smartphone. During the same month, 15% of the units sold were returned. If sales and the return rate remain the same for each of the next 5 months, about how many units of this smartphone will be returned to the company during this 6-month period?

- A) 195,000
- B) 975,000
- C) 1,170,000
- D) 6,630,000

#3

ID: d693f563

Last year, Cedric had 35 plants in his garden. This year, the number of plants in Cedric's garden is 60% greater than the number of plants in his garden last year. How many plants does Cedric have in his garden this year?

#4

ID: 7cab9fe1

Which expression represents the result of increasing a positive quantity w by 43%?

- A) $1.43w$
- B) $0.57w$
- C) $43w$
- D) $0.43w$

#7

ID: 8e2e424e

The number k is 36% greater than 50. If k is the product of 50 and r , what is the value of r ?

- A) 36
- B) 3.6
- C) 1.36
- D) 0.36

#5

ID: 121dc44f

The population of City A increased by 7% from 2015 to 2016. If the 2016 population is k times the 2015 population, what is the value of k ?

- A) 0.07
- B) 0.7
- C) 1.07
- D) 1.7

#8

ID: 709e04de

The value of z is 1.13 times 100. The value of z is what percent greater than 100?

- A) 11.3
- B) 13
- C) 130
- D) 213

#6

ID: 8a714fa1

Which of the following represents the result of increasing the quantity x by 9%, where $x > 0$?

- A) $1.09x$
- B) $0.09x$
- C) $x + 9$
- D) $x + 0.09$

#9

ID: ba61d95f

The population of Greenville increased by 7% from 2015 to 2016. If the 2016 population is k times the 2015 population, what is the value of k ?

- A) 0.07
- B) 0.7
- C) 1.07
- D) 1.7

#10

ID: 8cbf1415

In a group, 40% of the items are red. Of all the red items in the group, 30% also have stripes. What percentage of the items in the group are red with stripes?

- A) 10%
- B) 12%
- C) 70%
- D) 75%

#11

ID: 96a45430

A number n is increased 6%. If the result is 318, what is the value of n ?

- A) 199
- B) 299
- C) 300
- D) 337

#12

ID: b2f6f17d

A customer's monthly water bill was \$75.74. Due to a rate increase, her monthly bill is now \$79.86. To the nearest tenth of a percent, by what percent did the amount of the customer's water bill increase?

- A) 4.1%
- B) 5.1%
- C) 5.2%
- D) 5.4%

#13

ID: c256b723

The amount of Hanna's bill for a food order was \$ 50. Hanna gave a tip of 20% of the amount of the bill. What is the amount, in dollars, of the tip Hanna gave?

#14

ID: 94c65646

432 is 96% of what number?

#15

ID: 7b731fc3

What number is 40% greater than 115?

#16

ID: e9f4521a

13 is $p\%$ of 25. What is the value of p ?

#17

ID: 566759ef

Thomas installed a new stove in his restaurant. At the time of installation, the stove had a value of \$800. Thomas estimates that each year the value of the stove will depreciate by 20% of the previous year's estimated value. What is the estimated value of the stove exactly 2 years after Thomas installed it?

- A) \$480
- B) \$512
- C) \$556
- D) \$640

#18

ID: ad1d6adb

The number of coins in a collection increased from 9 to 90. What was the percent increase in the number of coins in this collection?

- A) 10%
- B) 81%
- C) 90%
- D) 900%

#19

ID: d72a2b4d

In March, the price of a collectible card was \$ 15.50. In April, the price of the collectible card was \$ 17.36. The price of the collectible card in April was $p\%$ of the price of the collectible card in March. What is the value of p ?

- A) 12
- B) 88
- C) 112
- D) 188