

SAT Math

Percentages 2

Question # ID

2.1 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.

2.2 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

2.3 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. $x + 0.09$

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Question # ID

2.4 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

2.5 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

2.6 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%

2.7 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

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Question # ID**2.8** 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%

2.9 94c65646

432 is 96% of what number?

2.10 7b731fc3

What number is 40% greater than 115?

2.11 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

2.12 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%

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Question # ID**2.13** e9f4521a13 is $p\%$ of 25. What is the value of p ?**2.14** 7f84b136

The table summarizes the number of objects in each group.

Group	Number of objects
A	375
B	54
C	690
D	81
Total	1,200

The number of objects in group C is $p\%$ of the number of objects in group A. What is the value of p ?**2.15** 022e9894

An insurance company offers a series of three information sessions. 1,250 people attended the first information session. 72% of the people who attended the first information session attended the second information session, and 36% of the people who attended the first and second information sessions attended the third information session. How many people attended all three information sessions?