

Question ID 707db2d3

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Percentages	<div><div></div><div></div><div></div></div>

ID: 707db2d3

2.1

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.

Question ID 63573fea

Assessment	Test	Domain	Skill	Difficulty
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ID: 63573fea

2.2

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

Question ID 8a714fa1

Assessment	Test	Domain	Skill	Difficulty
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ID: 8a714fa1

2.3

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. $x + 0.09$

Question ID 8e2e424e

Assessment	Test	Domain	Skill	Difficulty
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ID: 8e2e424e

2.4

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

Question ID 709e04de

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Percentages	<div><div></div><div></div><div></div></div>

ID: 709e04de

2.5

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**

Question ID 8cbf1415

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Percentages	<div><div></div><div></div><div></div></div>

ID: 8cbf1415

2.6

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%**

Question ID 96a45430

Assessment	Test	Domain	Skill	Difficulty
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ID: 96a45430

2.7

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

Question ID b2f6f17d

Assessment	Test	Domain	Skill	Difficulty
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ID: b2f6f17d

2.8

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%

Question ID 94c65646

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Percentages	<div><div></div><div></div><div></div></div>

ID: 94c65646

2.9

432 is 96% of what number?

Question ID 7b731fc3

Assessment	Test	Domain	Skill	Difficulty
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ID: 7b731fc3

2.10

What number is ~~40%~~ greater than ~~115~~?

Question ID 566759ef

Assessment	Test	Domain	Skill	Difficulty
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ID: 566759ef

2.11

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

Question ID ad1d6adb

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ID: ad1d6adb

2.12

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%**