

SAT2-MATHEMATICS^{Q&As}

SAT Section 2: Mathematics

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QUESTION 1

What two values are not in the domain of



- A. -3, 12
- B. 3, -12
- С. –6, 6
- D. --6, 36
- E. 9, 36

Correct Answer: A

QUESTION 2

COST OF BALLONS	
QUANTITY	PRICE PER BALLOON
1	\$1.00
10	\$0.90
100	\$0.75
1,000	\$0.60

Balloons are sold according to the chart above. If a customer buys one balloon at a time, the cost is \$1.00 per balloon. If a customer buys ten balloons at a time, the cost is \$0.90 per balloon. If Carlos wants to buy 2,000 balloons, how much money does he save by buying 1,000 balloons at a time rather than ten balloons at a time?

A. \$200



- B. \$300
- C. \$500
- D. \$600
- E. \$800

Correct Answer: D

Explanation:

If Carlos buys ten balloons, he will pay (10)(\$0.90) = \$9. In order to total 2,000 balloons, Carlos will have to make this purchase 2,000/10 = 200 times. It will cost him a total of (200)(\$9) = \$1,800. If Carlos buys 1,000 balloons, he will pay (1,000)(\$0.60) = \$600. In order to total 2,000 balloons, Carlos will have to make this purchase 2,000/1,000 = 2 times. It will cost him a total of (2)(\$600) = \$1,200. It will save Carlos \$1,800 - \$1,200 = \$600 to buy the balloons 1,000 at a time.

QUESTION 3

Four copy machines make 240 total copies in three minutes. How long will it take five copy machines to make the same number of copies?

A. 2 minutes

- B. 2 minutes, 15 seconds
- C. 2 minutes, 24 seconds
- D. 2 minutes, 45 seconds
- E. 3 minutes, 36 seconds

Correct Answer: C

If four copy machines make 240 copies in three minutes, then five copy machines will make 240 copies in x minutes:

$$(4)(240)(3) = (5)(240)(x)$$

2,880=1,200 x
x=2.4

Five copy machines will make 240 copies in 2.4 minutes. Since there are 60 seconds in a minute, 0.4 of a minute is equal to (0.4)(60) = 24 seconds. The copies will be made in 2 minutes, 24 seconds.

QUESTION 4

Simon plays a video game four times. His game scores are 18 points, 27 points, 12 points, and 15 points. How many points must Simon score in his fifth game in order for the mean, median, and mode of the give games to equal each



other?

- A. 12 points
- B. 15 points
- C. 18 points
- D. 21 points
- E. 27 points

Correct Answer: C

For the median and mode to equal each other, the fifth score must be the same as one of the first four, and, it must fall in the middle position when the five scores are ordered. Therefore, Simon must have scored either 15 or 18 points in his fifth game. If he scored 15 points, then his mean score would have been greater than 15: 17.4. Simon scored 18 points in his fifth game, making the mean, median, and mode for the five games equal to 18.

QUESTION 5

The line is

A. parallel to the line
$$y = \frac{1}{2}x + 8$$
.

- B. parallel to the line $\frac{1}{2}y = -x + 3$.
- C. perpendicular to the line $2y = \frac{-1}{2}x + 8$
- D. perpendicular to the line $\frac{1}{2}y = -2x 8$ E. perpendicular to the line y = 2x - 8.

A. Option A

- B. Option B
- C. Option C

D. Option D

E. Option E

Correct Answer: B



Parallel lines have the same slope. When an equation is written in the for my = mx + b the value of m (the coefficient of x) is the slope. The line y = -2x + 8 has a slope of -2. The line 1/2y = -x + 3 is equal to y = -2x + 8

6. This line has the same slope as the line y = -2x + 8; therefore, these lines are parallel.

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