

SAT2-MATHEMATICS^{Q&As}

SAT Section 2: Mathematics

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QUESTION 1

$$\frac{5}{16} < x < \frac{9}{20},$$

A. $\frac{1}{3}$

B. $\frac{2}{5}$

C. $\frac{3}{8}$

D. $\frac{3}{7}$

E. $\frac{4}{9}$

If 0.34

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: C

$\frac{5}{16} = 0.3125$ and $\frac{9}{20} = 0.45$; $\frac{3}{8} = 0.375$ which is between 0.34 and 0.40, and between 0.3125 and 0.45.

QUESTION 2

If $3x-y=2$ and $2y-3x=8$, which of the following is equal to x/y ?

A. $\frac{2}{3}$

B. $\frac{2}{5}$

C. $2\frac{1}{2}$

D. 4

E. 6

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: B

$$3x - y = 2 \text{ for } y: -y = -3x + 2, y = 3x - 2$$

Solve

Substitute $3x-2$ for y in the second equation and solve for x :

$$2(3x - 2) - 3x = 8$$

$$6x - 4 - 3x = 8$$

$$3x - 4 = 8$$

$$3x = 12$$

$$x = 4$$

Substitute the value of x into the first equation to find the value of y:

$$3(4) - y = 2$$

$$12 - y = 2$$

$$y = 10$$

$$\frac{x}{y} = \frac{4}{10} = \frac{2}{5}$$

$$x^3 + 7x^2 - 8x$$

QUESTION 3

A line has a y-intercept of -6 and an x-intercept of 9 . Which of the following is a point on the line?

- A. $(-6, -10)$
- B. $(1, 3)$
- C. $(0, 9)$
- D. $(3, -8)$
- E. $(6, 13)$

Correct Answer: A

A line with a y-intercept of -6 passes through the point $(0, -6)$ and a line with an x-intercept of 9 passes through the point $(9, 0)$. The slope of a line is equal to the change in y values between two points on the line divided by the change in the x values of those points. The slope of this line is equal to

$$\frac{0 - (-6)}{9 - 0} = \frac{6}{9} = \frac{2}{3}$$

$$y = \frac{2}{3}x - 6.$$

The equation of the line that has a slope of $\frac{2}{3}$ and a y-intercept of -6 is

$$\frac{2}{3}(-6) - 6 = -4 - 6 = -10;$$

When $x = -6$, y is equal to

$$y = \frac{2}{3}x - 6$$

therefore, the point $(-6, -10)$ is on the line

QUESTION 4

An empty crate weighs 8.16 kg and an orange weighs 220 g. If Jon can lift 11,000 g, how many oranges can he pack in the crate before lifting it onto his truck?

- A. 12
- B. 13
- C. 37
- D. 46
- E. 50

Correct Answer: A

The empty crate weighs 8.16 kg, or 8,160 g. If Jon can lift 11,000 g and one orange weighs 220 g, then the number of oranges that he can pack into the crate is equal to

$$\frac{11,000 - 8,160}{220} = \frac{2,840}{220} \approx 12.9$$

Jon cannot pack a fraction of an orange. He can pack 12 whole oranges into the crate.

QUESTION 5

The average of five consecutive odd integers is -21 . What is the least of these integers?

- A. -17
- B. -19
- C. -21
- D. -23
- E. -25

Correct Answer: E

Explanation:

If the average of five consecutive odd integers is -21 , then the third integer must be -21 . The two larger integers are -19 and -17 and the two lesser integers are -23 and -25 . -25 is the least of the five integers.

Remember, the more a number is negative, the less is its value.

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