



SAT2-MATHEMATICS^{Q&As}

SAT Section 2: Mathematics

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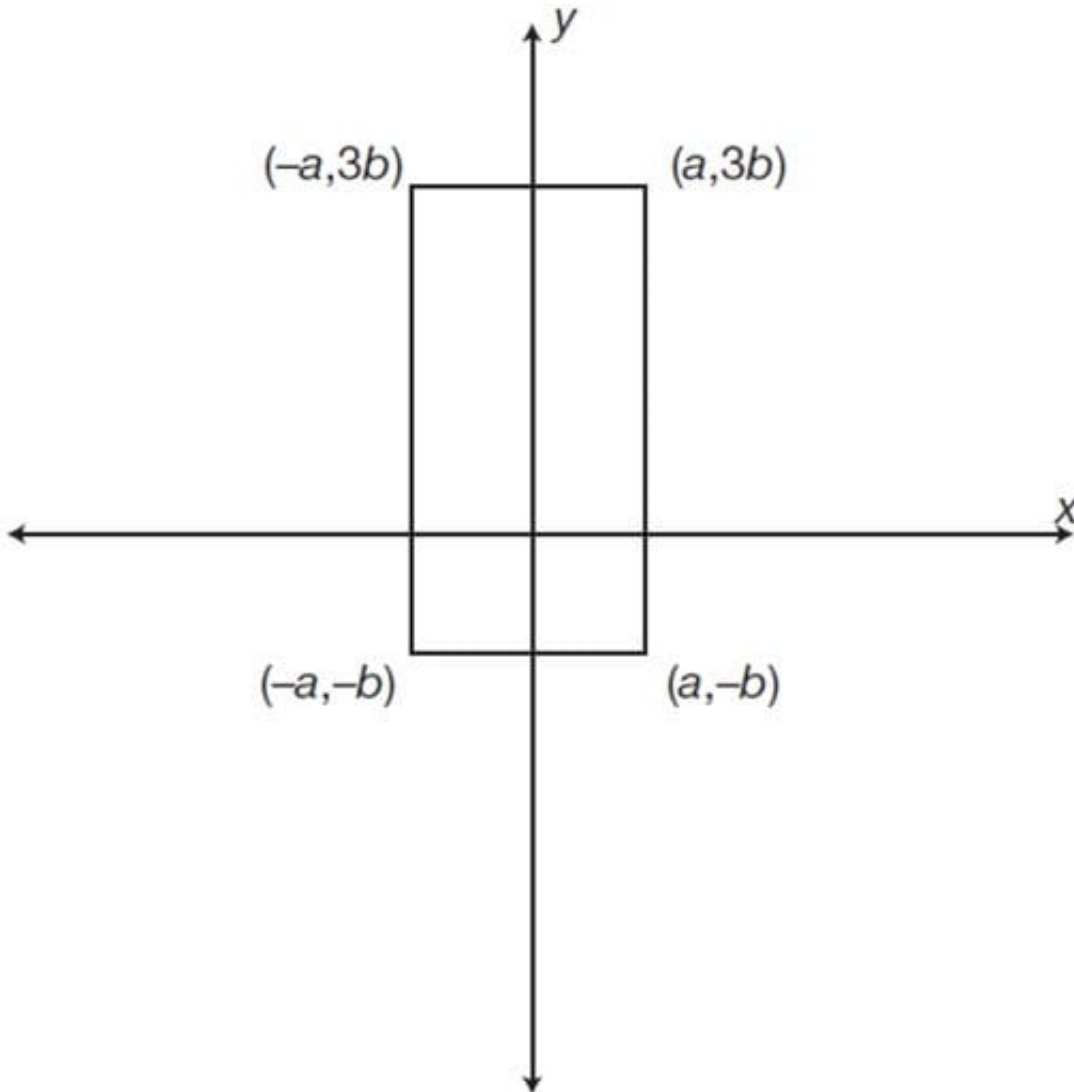
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QUESTION 1



In the diagram above, what is the area of the rectangle?

- A. $6ab$ square units
- B. $8ab$ square units
- C. $9b^2$ square units
- D. $12ab$ square units
- E. $16b$ square units

Correct Answer: B

The y-axis divides the rectangle in half. Half of the width of the rectangle is a units to the left of the y-axis and the other half is a units to the right of the y-axis. Therefore, the width of the rectangle is $2a$ units. The length of the rectangle



stretches from $3b$ units above the x -axis to b units below the x -axis. Therefore, the length of the rectangle is $4b$ units. The area of a rectangle is equal to lw , where l is the length of the rectangle and w is the width of the rectangle. The area of this rectangle is equal to $(2a)(4b) = 8ab$ square units.

QUESTION 2

The number p is greater than 0, a multiple of 6, and a factor of 180. How many possibilities are there for the value of p ?

A. 7

B. 8

C. 9

D. 10

E. 11

Correct Answer: B

The positive factors of 180 (the positive numbers that divide evenly into 180) are 1, 2, 3, 4, 5, 6, 9, 10, 12, 15, 18, 20, 30, 36, 45, 60, 90, and 180. Of these numbers, 8 (6, 12, 18, 30, 36, 60, 90, and 180) are multiples of 6.

QUESTION 3

$$\frac{b^{-a}}{a^{-1}} = i$$



A. b

B. $b - a^2$

C. $\frac{b}{a} - 1$

D. $\frac{b}{a^2} - 1$

E. $\frac{b}{a^2} - a$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: D

$$\frac{1}{a^{-1}} = \frac{1}{\frac{1}{a}} = a, \quad \frac{\frac{b}{a} - a}{a} = \left(\frac{b}{a} - a\right) \left(\frac{1}{a}\right) = \frac{b}{a^2} - 1$$

QUESTION 4

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 form $y = mx + b$ the value of m (the coefficient of x) is the slope. The line $y = -2x + 8$ has a slope of -2 . The line $\frac{1}{2}y = -x + 3$ is equal to $y = -2x + 6$

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

QUESTION 5

The expression $4x^2 - 2x + 3$ is equal to 3 when $x = 0$ and when $x =$



A. $\frac{-1}{2}$

B. $\frac{-1}{4}$

C. $\frac{1}{8}$

D. $\frac{1}{4}$

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

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: E

Set the expression $4x^2 - 2x + 3$ equal to 3 and solve for x:



$$4x^2 - 2x + 3 = 3$$

$$4x^2 - 2x + 3 - 3 = 3 - 3$$

$$4x^2 - 2x = 0$$

$$4x \left(x - \frac{1}{2} \right) = 0$$

$$x = 0, \quad x = \frac{1}{2}$$

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