



# SAT2-MATHEMATICS<sup>Q&As</sup>

SAT Section 2: Mathematics

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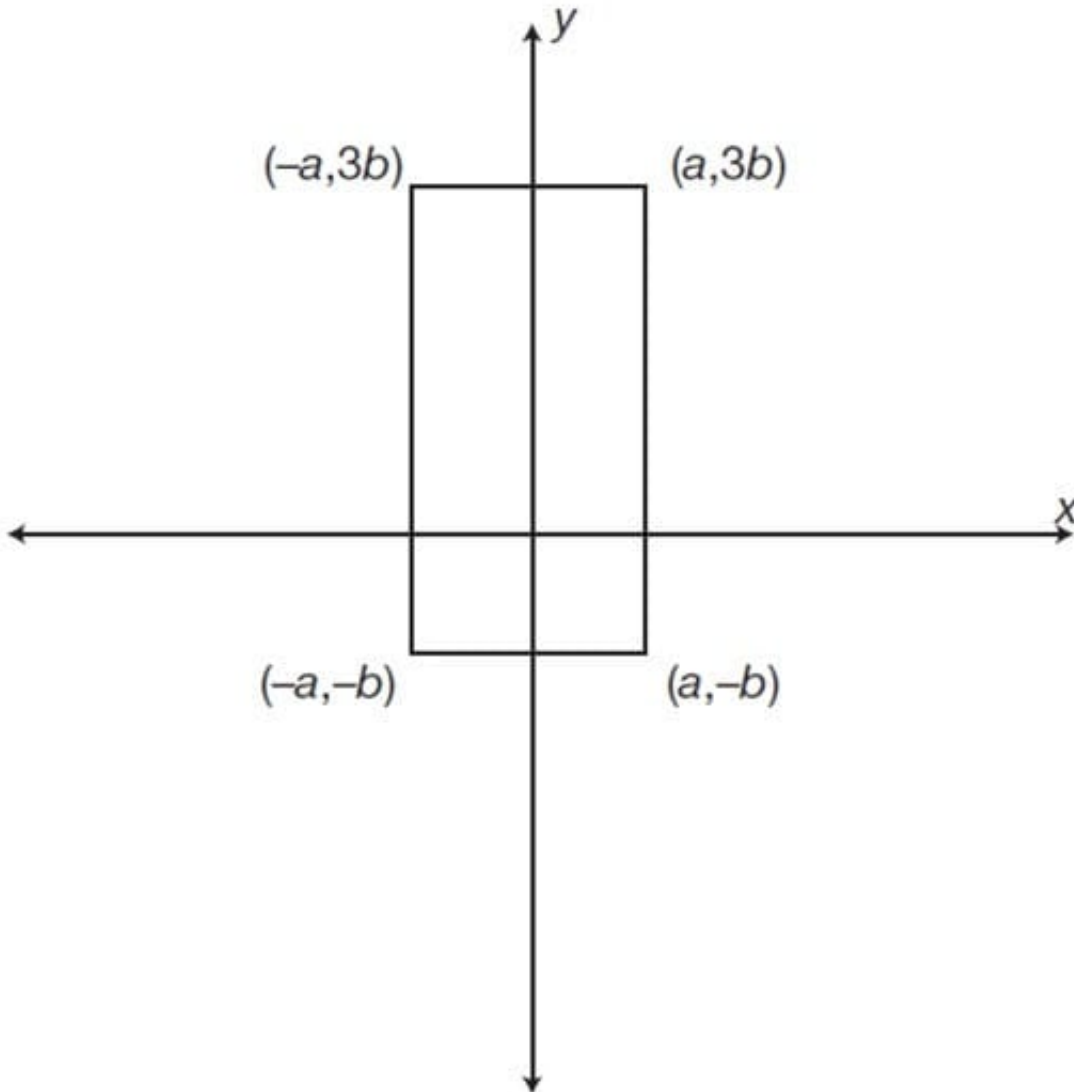
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QUESTION 1



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

If  $g > 0$  and  $h$

- A.  $gh$
- B.  $g + h$
- C.  $g - h$
- D.  $|h| - |g|$
- E.  $h^2$

Correct Answer: C

A positive number minus a negative number will not only always be a positive number, but will also be a positive number greater than the first operand.  $gh$  will always be negative when one multiplicand is positive and the other is negative.  $g + h$  will be positive when the absolute value of  $g$  is greater than the absolute value of  $h$ , but  $g + h$  will be negative when the absolute value of  $g$  is less than the absolute value of  $h$ .  $|h| - |g|$  will be positive when  $|h|$  is greater than  $g$ , but  $|h| - |g|$  will be negative when  $|h|$  is less than  $g$ .  $hg$  will be positive when  $g$  is an even, whole number, but negative when  $g$  is an odd, whole number.

### QUESTION 3

#### SIMULATION

In Marie's fish tank, the ratio of guppies to platies is  $4:5$ . She adds nine guppies to her fish tank and the ratio of guppies to platies becomes  $5:4$ . How many guppies are in the fish tank now?

- A. 25

Correct Answer: A

If the original ratio of guppies,  $g$ , to plates,  $p$ , is  $4:5$ , then  $g = \frac{4}{5}p$ . If nine guppies are added, then the new number of guppies,  $g + 9$ , is equal to  $\frac{5}{4}p$ :  $g + 9 = \frac{5}{4}p$ . Substitute the value of  $g$  in terms of  $p$  from the first equation:  $\frac{4}{5}p + 9 = \frac{5}{4}p$ ,  $9 = \frac{9}{20}p$ ,  $p = 20$ . There are 20 plates in the fish tank and there are now  $20(\frac{5}{4}) = 25$  guppies in the fish tank.

$$\frac{\sqrt[6]{3}}{\sqrt{3}}$$

### QUESTION 4



Which of the following statements is always true if  $p$  is a rational number?

A.  $|p| < |3p|$

B.  $|p^2| > |p + 1|$

C.  $|-p| > p$

D.  $|p^3| > |p^2|$

E.  $|p^{-p}| > p^{-p}$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: A

No matter whether  $p$  is positive or negative, or whether  $p$  is a fraction, whole number, or mixed number, the absolute value of three times any number will always be positive and greater than the absolute value of that number.

### QUESTION 5

Gil drives five times farther in 40 minutes than Warrick drives in 30 minutes. If Gil drives 45 miles per hour, how fast does Warrick drive?

A. 6 mph

B. 9 mph

C. 12 mph

D. 15 mph

E. 30 mph

Correct Answer: C

If  $d$  is the distance Warrick drives and  $s$  is the speed Warrick drives, then  $30s = d$ . Gil drives five times farther,  $5d$ , in 40 minutes, traveling 45 miles per hour:  $5d = (40)(45)$ . Substitute the value of  $d$  in terms of  $s$  into the second equation and solve for  $s$ , Warrick's speed:  $5(30s) = (40)(45)$ ,  $150s = 1,800$ ,  $s = 12$ . Warrick drives 12 mph.



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