SAT2-MATHEMATICS Q&As

SAT Section 2: Mathematics

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QUESTION 1

If 30% of r is equal to 75% of s, what is 50% of s if r = 30?

A. 4.5

B. 6

C. 9

D. 12

E. 15

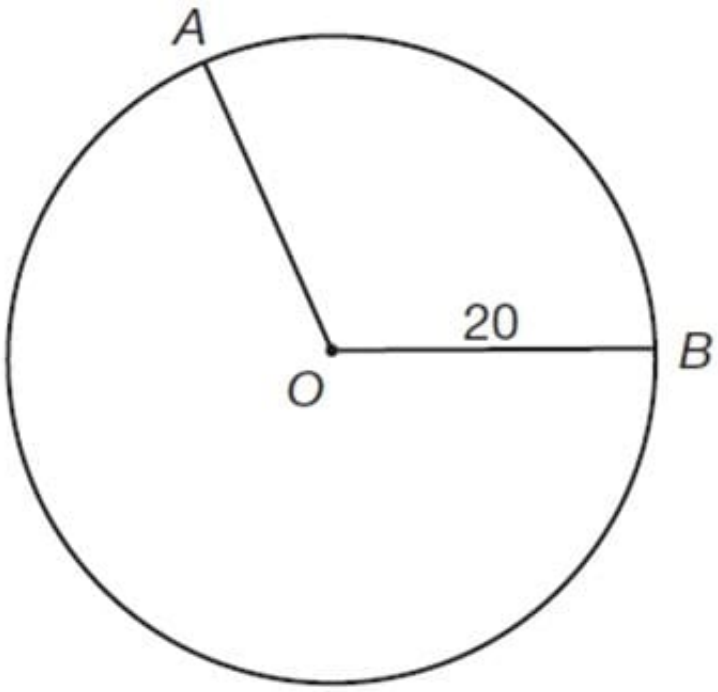
Correct Answer: B

If r = 30, 30% of r = (0.30)(3) = 9. 9 is equal to 75% of s. If 0.75s = 9, then s = 12. 50% of s = (0.50)(12) =

6.

QUESTION 2

SIMULATION



In the diagram above, the radius of the circle is 20 units and the length of arc AB is 15 units. What is the measure in degrees of angle AOB?

A. 135

Correct Answer: A

The length of an arc is equal to the circumference of the circle multiplied by the measure of the angle that intercepts the arc divided by 360. The arc measures 15 units, the circumference of a circle is 2 multiplied by the radius, and the radius of the circle is 20 units. If x represents the measure of angle AOB, then:

$$15\pi = \frac{x}{360} 2\pi(20)$$

$$15 = \frac{x}{360}(40)$$

$$15 = \frac{x}{9}$$

$$x = 135$$

The measure of angle AOB is 135 degrees.

QUESTION 3

$p < 0,\ q > 0,\ and\ r > p$

If , then which of the following must be true?

A. $p + r > 0$

B. $r\,p < r\,q$

C. $pr < rq$

D. $r + q > q$

E. $p + r < r + q$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: E

$p + r < r + q.$

$p < 0$ and $q > 0$, then $p < q$. Since $p < q$, p

If plus any value will be less than that same value (whether positive or negative). Therefore,

QUESTION 4

If y = -x3 + 3x -3, what is the value of y when x= -3?

A. –35

B. –21

C. 15

D. 18

E. 33

Correct Answer: C

Substitute –3 for x and solve for y:

$$y = -(-3)^3 + 3(-3) - 3$$
$$y = -(-27) - 9 - 3$$
$$y = 27 - 12$$
$$y = 15$$

QUESTION 5

Which of the following could be equal to x/4x?

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

B. $\frac{0}{4}$

C. 0.20

D. $\frac{4}{12}$

E. $\frac{5}{20}$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: E

Divide the numerator and denominator of x/4x by x, leaving 1/4 Divide the numerator and denominator of 5/20 by 5. This fraction is also equal to 1/4.