

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

SAT Section 2: Mathematics

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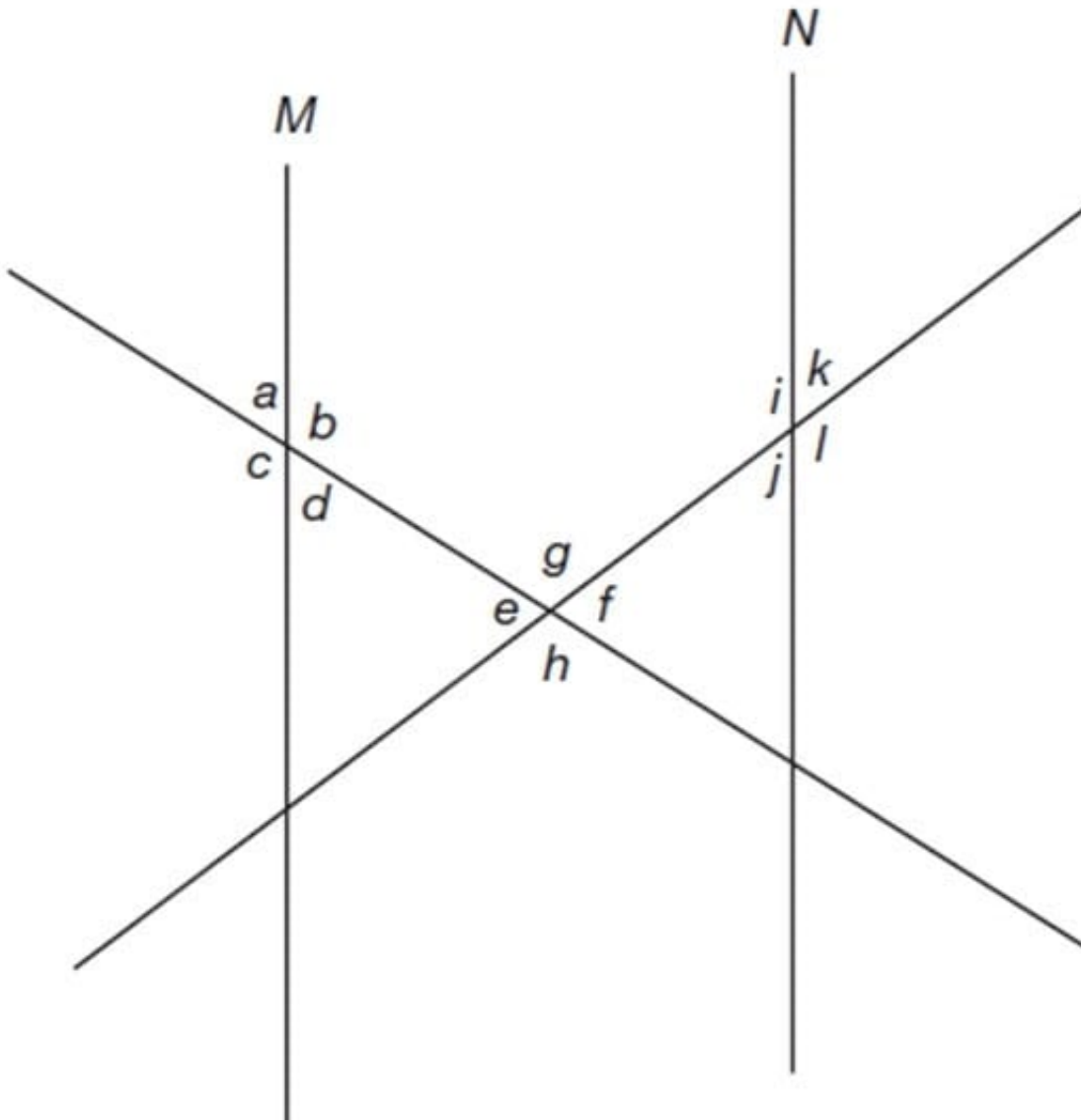
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QUESTION 1



In the diagram above, lines M and N are parallel. All of the following are true EXCEPT:

- A.  $a + b = j + l$ .
- B.  $g = h$ .
- C.  $c + f = f + b$ .
- D.  $g + e + f + h = 360$ .
- E.  $d + e = f + j$ .

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Correct Answer: E

Angles e and f are vertical angles, so angle e = angle f. However, angle d and angle j are not alternating angles. These angles are formed by different transversals. It cannot be stated that angle d = angle j, therefore, it cannot be stated that  $d + e = f + j$ .

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## QUESTION 2

### SIMULATION

For any whole number  $x > 0$ , how many elements are in the set that contains only the numbers that are multiples AND factors of  $x$ ?

- A. 1

Correct Answer: A

The largest factor of a positive, whole number is itself, and the smallest multiple of a positive, whole number is itself. Therefore, the set of only the factors and multiples of a positive, whole number contains one element -- the number itself.

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## QUESTION 3

### SIMULATION

The length of a room is three more than twice the width of the room. The perimeter of the room is 66 feet.

What is the length of the room?

- A. 23

Correct Answer: A

If  $x$  is the width of the room, then  $3 + 2x$  is the length of the room. The perimeter is equal to  $x + x + (3 + 2x) + (3 + 2x) = 66$ ;  $6x + 6 = 66$ ;  $6x = 60$ ;  $x = 10$ . The length of the room is equal to  $2x + 3$ ,  $2(10) + 3 = 23$  feet.

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## 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

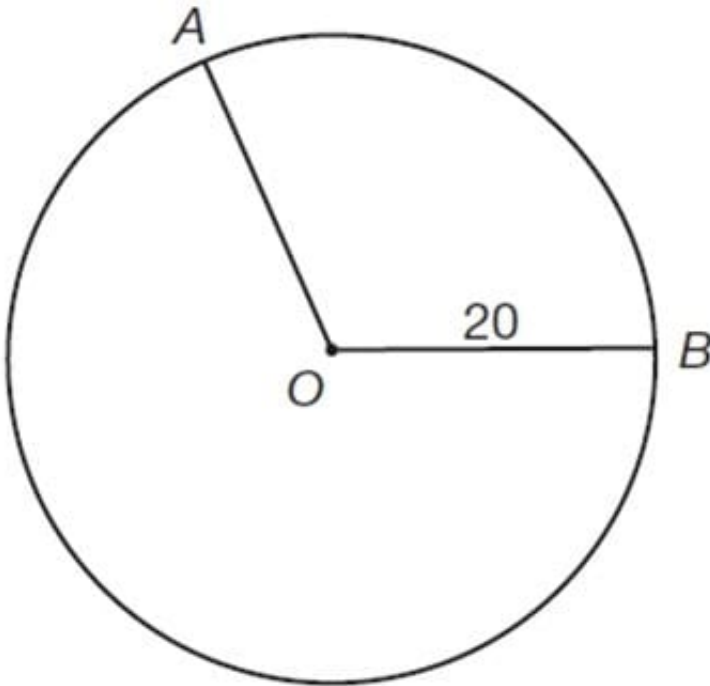
Correct Answer: B

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

### 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.

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