

SAT2-MATHEMATICS Q&As

SAT Section 2: Mathematics

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QUESTION 1



In the diagram above, if line AB is parallel to line CD, and line EF is perpendicular to lines AB and CD, all of the following are true EXCEPT

A. e = a + b + 90B. a + h + f = b + g + d. C. a + h = g. D. a + b + d = 90. E. c + b = g. A. Option A B. Option B C. Option C D. Option D E. Option E



Correct Answer: E

Since AB and CD are parallel lines cut by a transversal, angle f is equal to the sum of angles c and b. However, angle f and angle g are not equal -- they are supplementary. Therefore, the sum of angles c and b is also supplementary -- and not equal -- tog.

QUESTION 2

SIMULATION

Find the measure of angle Z.



A. 90

Correct Answer: A

Explanation:

Triangle DBC and triangle DEF are isosceles right triangles, which means the measures of ? BDC and ?EDF both equal 45° ; 180 - (m?BDC + m?EDF) = m?Z; 180 - 90 = m?Z; $m?Z = 90^{\circ}$.

QUESTION 3

What is the equation of the line that passes through the points (2, 3) and (?, 5)?



A.
$$y = x + 1$$

B.
$$y = \frac{-1}{2}x + 4$$

C.
$$y = \frac{-1}{2}x$$

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

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

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E
- Correct Answer: B

First, find the slope of the line. The slope of a line is equal to the change in y values divided by the change in x values of two points on the line. The y value increases by 2(5 - 3) and the x value decreases by 4(-2 2). Therefore, the slope of the line is equal to -2/4 or -1/2 The equation of the line is Y = -1/2x + b here b is they-intercept. Use either of the two given points to solve for b:

$$3 = \frac{-1}{2}(2) + b$$
$$3 = -1 + b$$
$$b = 4$$

$$y = \frac{-1}{2}x + 4$$

The equation of the line that passes through the points (2, 3) and (-2, 5) is .



QUESTION 4

The product of A. Option A

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

A.a B. c. D. Е. ____

 b^4

B. Option B



- C. Option C
- D. Option D
- E. Option E
- Correct Answer: E

A fraction with a negative exponent can be rewritten as a fraction with a positive exponent by switching the numerator with the denominator.



QUESTION 5

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



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

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