

ASVAB-SECTION-6^{Q&As}

ASVAB Section Six : Mathematics Knowledge

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QUESTION 1

(x + 6)	(4x + 8) =	
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- A. 4x2 + 14x + 48
- B. 4x2 + 32x + 14
- C. $4x^2 + 32x + 32$
- D. $4x^2 + 32x + 48$
- Correct Answer: D

QUESTION 2

Evaluate the expression 6a - 3x - 2y, if a = 3, x = 7, and y = 4.

A. -5

B. -40

C. 31

D. 40

Correct Answer: A

Explanation:

Replace the unknowns with the numbers given. $(6 \times -3) - (3 \times -7) - (2 \times 4) = -18 + 21 - 8 = -5$.

QUESTION 3

?25x2 = _____.

А. х

B. x2

C. 5x2

D. –5x2

Correct Answer: C

Explanation: $25x^2 = (5x)^2 = 5x^2$



QUESTION 4

An equilateral triangle has the same perimeter as a square whose side is 12 inches.

What is the length of a side of the triangle?

- A. 9 inches
- B. 12 inches
- C. 18 inches
- D. 16 inches
- Correct Answer: D
- Explanation:

The perimeter of a square is 4 times a side. Therefore, the perimeter of this square is 4×12 inches or 48

inches.

The equilateral triangle has the same perimeter as the square. Since the 3 sides of an equilateral triangle

are equal, divide by 3 to find the length of one side. (48 inches) \div 3 = 16 inches (length of one side).

QUESTION 5

What is 4% of 0.0375?

A. 0.0015

B. 0.9375

C. 0.0775

D. 0.15

Correct Answer: A

Explanation:

Multiply 0.0375 by 4% (or 0.04).

 $0.0375 \ge 0.04 = 0.001500 = 0.0015$

Note that the product has as many decimal places as there are in the multiplicand and multiplier combined,

but the two final zeros may be dropped since they are to the right of the decimal point and at the end.

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