



ASVAB-SECTION-6^{Q&As}

ASVAB Section Six : Mathematics Knowledge

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QUESTION 1

$$3(2x - 5) - 2(4x + 1) = -5(x + 3) - 2$$

- A. 0
- B. 1
- C. 2
- D. 3

Correct Answer: A

Explanation: $3(2x - 5) - 2(4x + 1) = -5(x + 3) - 2$
 $6x - 15 - 8x - 2 = -5x - 15 - 2$
 $-2x - 17 = -5x - 17$
 $3x = 0$
 $x = 0$

QUESTION 2

$$x^3 \times x^3 = \underline{\hspace{2cm}}$$

- A. x^9
- B. $2x^9$
- C. $2x^6$
- D. x^6

Correct Answer: D

Explanation:

If two powers have the same base, the numbers can be multiplied by keeping the base and adding the powers together.

QUESTION 3

A good rule of thumb is that a house should cost no more than 214 times its owner's income.

How much should you be earning to afford a \$64,000 home?

- A. \$20,500
- B. \$25,000
- C. \$32,000
- D. \$160,000



Correct Answer: B

Explanation:

Use m as the owner's income. According to the rule of thumb, a house costing \$64,000 should be no more than 2.5 times an owner's income, or $2.5m$. This can be stated as an equation.

$$2.5m = \$64,000$$

To solve for m , divide both sides by 2.5.

You are undoing the multiplication.

$$2.5m / 2.5 = \$64,000 / 2.5m \text{ clear the decimal in the divisor}$$

$$m = \$640,000 / 25 = \$25,600 \text{ (owner's income)}$$

QUESTION 4

$$\sqrt{(5 + x)^2} = \underline{\hspace{2cm}}$$

- A. $5 - x$
- B. $5 + x$
- C. $25 - 2x$
- D. $25 + 2x$

Correct Answer: B

Explanation: This is so easy that it may tempt you to think that the correct answer is too obvious. The square root of $(5 + x)^2$ is simply $5 + x$.

QUESTION 5

What is the value of $(+2)(-5x + 3)(-3)$?

- A. +90
- B. +60
- C. -13
- D. -3

Correct Answer: A

Explanation:

To find the product of more than two numbers, work on only two numbers at a time. If both of these



numbers have plus signs (+), their product has a plus sign, to both have minus signs (-), their product has a plus (not a minus) sign. Bui if their signs are different, the product has a minus sign.

$$(+2) (-5) (+3) (-3)$$

$$= (-10) (+3) (-3)$$

$$= (-30) (-3)$$

$$= +90$$

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