



# ASVAB-SECTION-6<sup>Q&As</sup>

ASVAB Section Six : Mathematics Knowledge

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### QUESTION 1

If  $y = 6$ , then  $2y \times y =$  \_\_\_\_\_.

- A. 12
- B. 72
- C. 18
- D. 242

Correct Answer: B

Explanation:

Substitute 6 for  $y$  the equation:  $2(6) \times 6 = 12 \times 6 = 72$ .

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### QUESTION 2

A room is 19 feet long, 10 feet wide, and 8 feet high.

If you want to paint the walls and ceiling, how many square feet of surface will you have to cover with paint?

- A. 232 square feet
- B. 422 square feet
- C. 464 square feet
- D. 654 square feet

Correct Answer: D

Explanation:

First, find the area (surface) of the ceiling. Since it is opposite the floor, it has the same length and width ( $A = lw$ ).  $19 \text{ feet} \times 10 \text{ feet} = 190 \text{ square feet}$  (ceiling).

Next find the combined area of two matching (opposite) walls. Start with the walls formed by the length and height of the room. (Clear the decimal in the divisor.)  $19 \text{ feet} \times 8 \text{ feet} = 152 \text{ square feet}$  (first wall).  $152 \text{ feet} \times 2 = 304 \text{ square feet}$  (matching walls).

Then find the area of the walls formed by the width and height of the room.  $10 \text{ feet} \times 8 \text{ feet} = 80 \text{ square feet}$  (second wall).  $80 \text{ feet} \times 2 = 160 \text{ square feet}$  (matching walls).

Finally, combine all surfaces to be painted.

$190 + 304 + 160 = 654 \text{ square feet}$



### QUESTION 3

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.

$$\begin{aligned} & (+2) (-5) (+3) (-3) \\ & = (-10) (+3) (-3) \\ & = (-30) (-3) \\ & = +90 \end{aligned}$$

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### QUESTION 4

How much water must be added to 1 liter of a 5% saline solution to get a 2% saline solution?

- A. 1 L
- B. 1.5 L
- C. 2 L
- D. 2.5 L

Correct Answer: B

Explanation:

Use the equation  $(0.05)(1) = (0.02)x$ :

the left side represents 5% of 1 liter; the right side represents 2% of some amount of water.

From the equation,  $x = 2.5$ .

Subtracting the 1 liter of water already present in the 5% solution, you will find that 1.5 liters need to be



added.

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#### QUESTION 5

Solve the following equation.  $y^3 \times y^4 =$  \_\_\_\_\_.

- A.  $y^7$
- B.  $y^{12}$
- C.  $2y^7$
- D.  $2y^{12}$

Correct Answer: A

Explanation:

When multiplying two powers with the same base, you keep the base and add the exponents.

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