

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

ASVAB Section Six : Mathematics Knowledge

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**QUESTION 1**

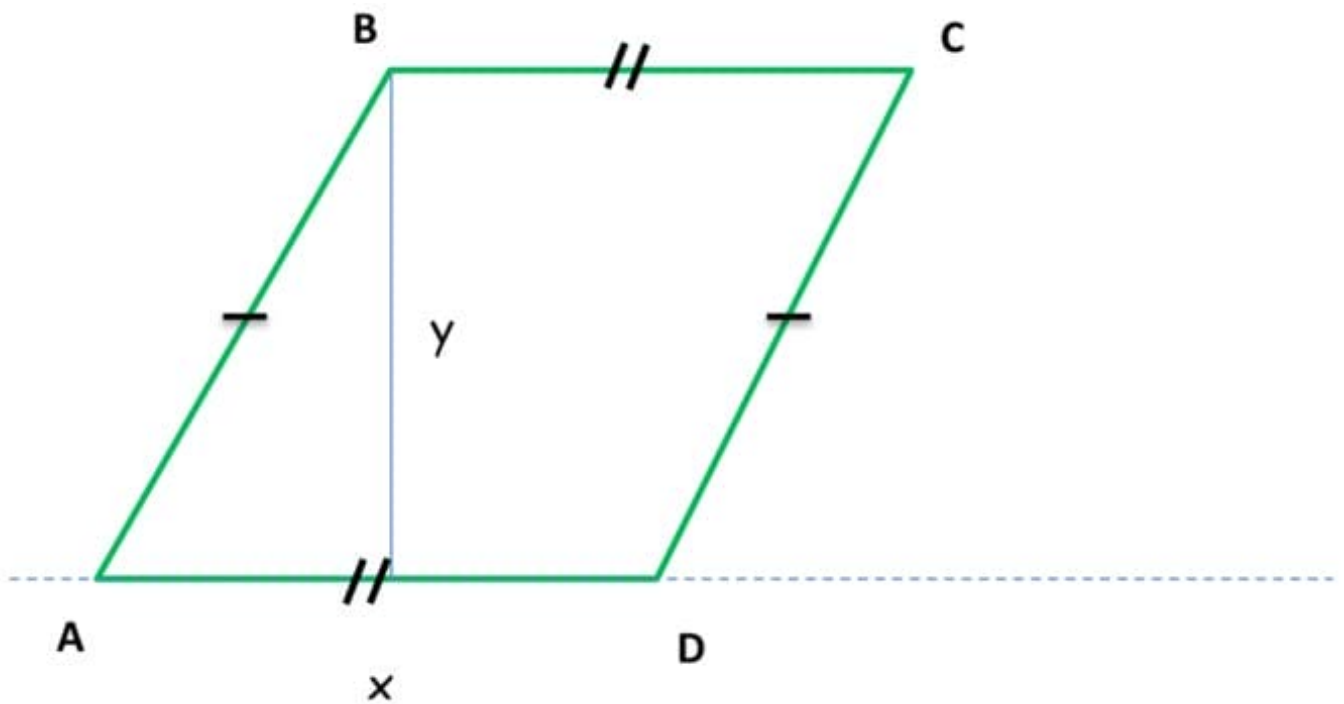
2 feet 4 inches + 4 feet 8 inches = \_\_\_\_\_.

- A. 6 feet 8 inches
- B. 7 feet
- C. 7 feet 2 inches
- D. 8 feet

Correct Answer: B

Explanation:

2 feet + 4 feet = 6 feet, and 4 inches plus 8 inches = 12 inches (the equivalent to 1 foot)

**QUESTION 2**

Given the diagram provided, what is the area of parallelogram ABCD if the height  $y$  is 7 and the base  $x$  is 5?

- A. 12
- B. 16807
- C. 35
- D. 74

Correct Answer: C

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### QUESTION 3

A square box has 6-inch sides.

What's its volume?

- A. 18 cubic inches
- B. 216 cubic inches
- C. 12 cubic inches
- D. 36 cubic inches

Correct Answer: B

Explanation:

Volume equals length x width x height ( $V = lwh$ ):  $6 \times 6 \times 6 = 216$  cubic inches.

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### QUESTION 4

$(y + 6)(y+4) = \underline{\hspace{2cm}}$ .

- A.  $y^2 + 10y + 24$
- B.  $2y + 10y + 10$
- C.  $y^2 + 24y + 10$
- D.  $y^2 + 10y + 10$

Correct Answer: A

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### QUESTION 5

Solve for x:

$$3x + 2 = -13$$

- A.  $x = 13$
- B.  $x = -4\frac{1}{3}$
- C.  $x = 8$

D.  $x = -5$

Correct Answer: D

Explanation: Step 1: Subtract 2 from each side of the equation in order to eliminate -2 from the left side. (You are undoing the addition.)  $3x + 2 - 2 = -13 - 2$   $3x = -15$  Step 2: Now divide each side by 3 to find x. (You are undoing the multiplication.)  $3x/3 = -15/3$   $x = -5$

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