



ASVAB-SECTION-6^{Q&As}

ASVAB Section Six : Mathematics Knowledge

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QUESTION 1

$\sqrt{49} \times \sqrt{64} = \underline{\hspace{2cm}}$.

- A. 56
- B. 15
- C. 42
- D. 3,136

Correct Answer: A

Explanation:

The square root of 49 is 7; the square root of 64 is 8.

$7 \times 8 = 56$.

QUESTION 2

If a car traveled 200 miles at an average rate of speed of r miles per hour, the time it took for the trip could be written as _____.

- A. $200/r$
- B. $r/200$
- C. $200r$
- D. $r/60$

Correct Answer: A

Explanation:

The basic formula for travel is "distance equals rate multiplied by time," or $D = rt$.

The car traveled 200 miles (D); therefore $200 = rt$.

To solve for time, divide both sides of the equation by r . (You are undoing the multiplication.)

$$200/r = rt/r$$

$$200/r = t \text{ (time it took for trip)}$$

QUESTION 3

Solve for x : $5x + 7 = 6(x - 2) - 4(2x - 3)$



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

Correct Answer: B

Explanation: $5x + 7 = 6(x - 2) - 4(2x - 3)$
 $5x + 7 = 6x - 12 - 8x + 12$
 $5x + 7 = -2x$
 $7x + 7 = 0$
 $7x = -7$
 $x = -1$

QUESTION 4

If $b - 3 = 7$, then b is equal to _____.

- A. 10
- B. 4
- C. 21
- D. 8

Correct Answer: A

Explanation: This equation means "some number, decreased by 3, is equal to 7." $b - 3 = 7$ To arrive at a true statement for b, we want to eliminate - 3 on the left side of the equation. We do this by adding 3 to both sides of the equation, undoing the subtraction on the left side. When we add 3 to both sides, we are keeping the statement an equation. $(b - 3) + 3 = 7 + 3$ By simplifying both sides, we isolate b and thus find the solution. $b = 10$

QUESTION 5

Convert 24% to a fraction.

- A. $\frac{6}{25}$
- B. $\frac{1}{25}$
- C. $\frac{6}{24}$
- D. $\frac{1}{24}$

Correct Answer: A

Explanation:

$24\% = \frac{24}{100}$. This fraction can be further reduced to $\frac{6}{25}$.