

ASVAB-SECTION-6^{Q&As}

ASVAB Section Six : Mathematics Knowledge

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QUESTION 1

In a bag of candy, there are 4 Tootsie Rolls, 3 Lollipops, 5 Hershey Kisses and 6 Starbursts. If you select one piece of candy at random, what is the probability that it will be a lollipop?

- A. 1/18
- B. 3/10
- C. 1/6
- D. 1/4

Correct Answer: C

Explanation:

There are 18 total pieces of candy and 3 lollipops. Therefore, the probability of picking one lollipop is $\frac{3}{18}$ which simplifies to $\frac{1}{6}$.

QUESTION 2

Solve for x: $2x - 6 = x + 5$

- A. 3
- B. 11
- C. 7
- D. 5

Correct Answer: B

Explanation: Isolate x on one side of the equation: $2x - 6 = x + 5$
 $2x - 6 - x = x + 5 - x$
 $x - 6 = 5$
 $x - 6 + 6 = 5 + 6$
 $x = 11$
Check by substituting 11 for x in the original equation.

QUESTION 3

Mr. Langendorfer drove his car steadily at 40 miles per hour for 120 miles. He then increased his speed and drove the next 120 miles at 60 miles per hour.

What was his average speed?

- A. 48 miles per hour
- B. 52 miles per hour
- C. 50 miles per hour

D. 46 miles per hour

Correct Answer: A

Explanation:

To find the average rate of speed (mph), divide the distance he covered by the time he spent traveling ($R = D/T$). In this example, begin by finding the distance traveled.

$120 + 120 = 240$ miles (distance)

Next find the length of time he traveled.

At the beginning of his trip, he drove 120 miles at 40 mph.

$120 / 40 = 3$ hours (first part of trip)

Later, he increased his speed.

$120 / 60 = 2$ hours (second part of trip)

Altogether, he traveled for 5 hours. Now apply the formula for finding his average rate of speed

$D/T = 240/5 = 48$ mph (rate of speed)

QUESTION 4

A tube has a radius of 3 inches and a height of 5 inches.

What's its approximate volume?

A. 34 cubic inches

B. 141 cubic inches

C. 565 cubic inches

D. 45 cubic inches

Correct Answer: B

Explanation:

For cylinders, Volume = $\pi r^2(h)$. In this problem, $V = \pi(3^2)(5)$.

Assume π is approximately 3.14.

V is approximately equal to $(3.14)(9)(5)$ or 141 cubic inches.

QUESTION 5

$(y^5) \times (y^3) =$ _____.

A. y15

B. y8

C. 2y15

D. 2y8

Correct Answer: B

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