ASVAB-SECTION-6$^{Q\&As}$

ASVAB Section Six : Mathematics Knowledge

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QUESTION 1

Solve for the factorial of 5 (5!).

A. 25

B. 125

C. 120

D. 15

Correct Answer: C

Explanation:

The factorial (!) of a number is the number multiplied by the next smallest whole number, then by the next

smallest whole number, and so on (down to 1). 5! = 5 x 4 x 3 x 2 x 1 = 120.

QUESTION 2

2.5 x 33 = _____.

A. 22.5

B. 75.0

C. 67.5

D. 675.0

Correct Answer: C

Explanation:

2.5 x 33= 2.5 (3 x 3 x 3) = 2.5 x 27 = 67.50.

QUESTION 3

The base of a cylindrical can is a circle whose diameter is 2 inches. Its height is 7 inches.

How many cubic inches are there in the volume of the can? Use 22/7 for the value of ?.

A. 124/7

B. 22

C. 44

D. 88

Correct Answer: B

Explanation:

The volume of a cylinder is equal to the product of its height and the area of its base. The base is a circle.

The area of a circle is ?r2, where ? = 22/7 and r is the radius. Since the diameter is 2 inches, the radius

(which is one-half the diameter) is 1 inch.

Area of circular base = 22/7 x 1/1 x 1/1 = 22/7

The height is 7 inches.

22/7 x 7/1 = 22 cubic inches

QUESTION 4

An equilateral triangle has the same perimeter as a square whose side is 12 inches.

What is the length of a side of the triangle?

A. 9 inches

B. 12 inches

C. 18 inches

D. 16 inches

Correct Answer: D

Explanation:

The perimeter of a square is 4 times a side. Therefore, the perimeter of this square is 4 x 12 inches or 48

inches.

The equilateral triangle has the same perimeter as the square. Since the 3 sides of an equilateral triangle

are equal, divide by 3 to find the length of one side. (48 inches) ÷3 = 16 inches (length of one side).

QUESTION 5

(12 yards + 14 feet) ÷ 5 = _____.

A. 12 feet

B. 51?5 feet

C. 10 feet

D. 21?2 yards

Correct Answer: C

Explanation:

Convert 12 yards and 14 feet to feet:

(12 yards x 3 feet per yard) + 14 feet = 36 feet + 14 feet = 50 feet.

Divide by 5 as instructed: 50 feet ÷ 5 = 10 feet.

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