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

ASVAB Section Six : Mathematics Knowledge

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QUESTION 1

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 2

Which of the following fractions is the largest?

A. 2?5

B. 3?8

C. 7?10

D. 13?16

Correct Answer: D

Explanation:

Find a common denominator for the fractions. In this case, 80 work for all the fractions.

Convert all the fractions: 2?5 = 32?80; 3?8 = 30?80; 7?10 = 56?80; and 13?16 = 65?80.

Comparing the fractions, you can see that 13?16 (65?80) is the largest fraction.

QUESTION 3

(y5) x (y3) = _____.

A. y15

B. y8

C. 2y15

D. 2y8

Correct Answer: B

QUESTION 4

A cylindrical post has a cross section that is a circle with a radius of 3 inches. A piece of cord can be wound around it exactly seven times.

How long is the piece of cord? Use 22/7 as the value of ?.

A. 66 inches

B. 42 inches

C. 198 inches

D. 132 inches

Correct Answer: D

Explanation: A length of cord that will wind around once is equal to the circumference of the circle whose radius is 3 inches. The circumference of a circle equals 2% r where n =22:7 and r is the radius. Circumference = 22/1 x 22/7 x 3/1 =132/7 inches If the cord can be wound around the post seven times, its length is seven times the length of one circumference. Length of cord 132/7 x 7/1 = 132 inches

QUESTION 5

If x = 8, what\\'s the value of y in the equation:

y = (x2 ÷ 4) - 2?

A. 14

B. 16

C. 18

D. 20

Correct Answer: A

Explanation: y = (x2 ÷ 4) - 2 y = (82 ÷ 4) - 2 y = (64 ÷ 4) - 2 y = 16 - 2 = 14

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