

ASVAB-SECTION-6^{Q&As}

ASVAB Section Six : Mathematics Knowledge

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QUESTION 1



What is the circumference of a circle with center at point A if the distance from point X to Y is 42?

- A. 131.88
- B. 126.63
- C. 9.86
- D. 136.93
- Correct Answer: A

QUESTION 2

What number multiplied by 2/3 will give a product of 1?

- A. -2/3
- B. -3/2
- C. 3/2
- D. 4/6

Correct Answer: C

Explanation:

If a number is multiplied by its reciprocal (also called its multiplicative inverse), the product is 1. The

reciprocal of a traction is found by inverting the fraction.



The reciprocal of 2/3 is 3/2, that is, $2/3 \times 3/2 = 1$

QUESTION 3
61/3 + 53/10 =
A. 114/13
B. 113/10
C. 1119/30
D. 111/3
Correct Answer: C
Explanation:
You must convert both fractions to thirtieths before adding. Thus, with the fractions converted the numbers

QUESTION 4

A cube has a volume of 64 cubic feet.

are 610/30 + 59/30 = 1119/30.

The surface area of the cube is _____.

- A. 64 square feet
- B. 384 square feet
- C. 96 square feet
- D. 128 square feet
- Correct Answer: C

Explanation: A cube is made up of equal length sides (s). The volume of a cube is s x s x s. Therefore, s = 4 in this case (4 x 4 x 4=64). A cube is made up of 6 squares, each with an area of s x s. Therefore, the surface area of a cube is 6 x s x s = 6 x 4 x 4 = 96

QUESTION 5

A room is 19 feet long, 10 feet wide, and 8 feet high.

If you want to paint the walls and ceiling, how many square feet of surface will you have to cover with paint?

- A. 232 square feet
- B. 422 square feet



C. 464 square feet

D. 654 square feet

Correct Answer: D

Explanation:

First, find the area (surface) of the ceiling. Since it is opposite the floor, it has the same length and width A

= lw). 19 feet x 10 feet = 190 square feet (ceiling).

Next find the combined area of two matching (opposite) walls. Start with the walls formed by the length and

height of the room. (Clear the decimal in the divisor.) 19 feet x 8 feet = 152 square feet (first wall). 152 feet

x = 304 square feet (matching walls).

Then find the area of the walls formed by the width and height of the room. 10 feet x 8 feet = 80 square

feet (second wall). 80 feet x = 160 square feet (matching walls).

Finally, combine all surfaces to be painted.

190 + 304 + 160 = 654 square feet

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