



# ASVAB-SECTION-6<sup>Q&As</sup>

ASVAB Section Six : Mathematics Knowledge

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### QUESTION 1

If  $x = 12$ , what is the value of  $p$  in this equation?  $p = x^2/6 - 4$

- A. 24
- B. 22
- C. 28
- D. 20

Correct Answer: D

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### QUESTION 2

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  $4 \times 12$  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.  $(48 \text{ inches}) \div 3 = 16 \text{ inches}$  (length of one side).

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### QUESTION 3

Which of the following is a prime number: 13, 15, 4, or 12?

- A. 4
- B. 15
- C. 13



D. 12

Correct Answer: C

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#### QUESTION 4

$61/3 + 53/10 =$  \_\_\_\_\_.

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

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#### QUESTION 5

What's the mode of the following series of numbers?

4, 4, 8, 8, 8, 10, 10, 12, 12 A. 9

B. 8

C. 11

D. 10

Correct Answer: B

Explanation:

The mode of a series of numbers is the number that appears in the series the most frequently.

In this case, it's 8.

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