

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

ASVAB Section Six : Mathematics Knowledge

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#### **QUESTION 1**

If a circle has a radius of 15 feet, what is its circumference most nearly?

- A. 24 feet
- B. 72 feet
- C. 94 feet
- D. 36 feet
- Correct Answer: C

Explanation:

Circumference equals ? times diameter, and diameter is equal to two times the radius.

Or C= ?d, and d = 2r. C = ?30.

If you round ? to 3.14, the answer is about 94.2 or about 94 feet.

#### **QUESTION 2**

(x + 3)(x + 5) = \_\_\_\_\_.

A. 
$$x^2 + 16x + 8$$
  
B.  $x^2 + 16x + 15$   
C.  $x^2 + 8x + 15$   
D.  $x^2 + 8x + 8$ 

A. Option A

B. Option B

- C. Option C
- D. Option D

Correct Answer: C

Explanation:

Use the FOIL method (First, Outside, Inside, Last) to solve.



 $x^{2} + 3x + 5x + 3 \times 5$ 

#### **QUESTION 3**

A circle has a radius of 8 inches. What is its approximate area?

- A. 200.9 square inches
- B. 25.1 square inches
- C. 50.2 square inches
- D. 64 square inches

Correct Answer: A

#### **QUESTION 4**

- (x3)2 = \_\_\_\_\_.
- A. x5
- B. x6
- C. x9
- D. 2x3

Correct Answer: B

Explanation: (x3)2 is the same as (x3)(x3). To multiply exponents with the same base, keep the base and add the exponents: (x3)(x3) = x6.

#### **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  $\div$  5 = 10 feet.

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