

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

ASVAB Section Six : Mathematics Knowledge

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**QUESTION 1**

What is the value of  $(+2)(-5x + 3)(-3)$ ?

- A. +90
- B. +60
- C. -13
- D. -3

Correct Answer: A

Explanation:

To find the product of more than two numbers, work on only two numbers at a time. If both of these numbers have plus signs (+), their product has a plus sign, to both have minus signs (-), their product has a plus (not a minus) sign. Bui if their signs are different, the product has a minus sign.

$$\begin{aligned} & (+2) (-5) (+3) (-3) \\ & = (-10) (+3) (-3) \\ & = (-30) (-3) \\ & = +90 \end{aligned}$$

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**QUESTION 2**

A square box has a volume of 64 cubic inches.

What's its perimeter?

- A. 8 inches
- B. 16 inches
- C. 64 inches
- D. 32 inches

Correct Answer: B

Explanation:

Volume equals length times width times height ( $V = lwh$ ). In this case,  $V = 64$ , so one side of the box is 4inches long. The cube root of 64 produces this number:  $64 = 4 \times 4 \times 4$ .

Find the perimeter by adding the four sides together:  $4 + 4 + 4 + 4 = 16$ .

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**QUESTION 3**

2 feet 4 inches + 4 feet 8 inches = \_\_\_\_\_.

- A. 6 feet 8 inches
- B. 7 feet
- C. 7 feet 2 inches
- D. 8 feet

Correct Answer: B

Explanation:

2 feet + 4 feet = 6 feet, and 4 inches plus 8 inches = 12 inches (the equivalent to 1 foot)

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**QUESTION 4**

Which of the following is the mode in this series of numbers? 2, 2, 6, 6, 6, 6, 8, 8, 8, 10, 10, 12

- A. 8
- B. 10
- C. 6
- D. 12

Correct Answer: C

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**QUESTION 5**

A pizza maker has  $y$  pounds of flour to make pizzas. After he has used 60 pounds of flour, how much flour is left?

The expression that correctly represents the quantity of flour left is \_\_\_\_\_.

- A.  $60 - y$
- B.  $y/60$
- C.  $60 + y$
- D.  $y - 60$

Correct Answer: D

**QUESTION 6**

If  $x = y$ ,  $6 + 4(x - y) =$  \_\_\_\_\_.

- A.  $6xy + 4$
- B.  $6 + 4xy$
- C.  $10x - 10y$
- D. 6

Correct Answer: D

Explanation:

$$6 + 4(x - y) = 6 + 4x - 4y.$$

Because  $x = y$ ,  $4x = 4y$ .

Therefore,  $4x - 4y = 4x - 4x = 0$ , and  $6 + 0 = 6$ .

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**QUESTION 7**

Factor  $9x^3 + 18x^2 - x - 2$ .

- A.  $(9x^2 - 1)(x + 2)$
- B.  $(9x^2 + 1)(x - 2)$
- C.  $(9x^2 + 2)(x - 1)$
- D.  $(9x^2 - 2)(x + 1)$

Correct Answer: C

Explanation:

$$9x^3 + 18x^2 - x - 2 = 9x^2(x + 2) - 1(x + 2) = (9x^2 - 1)(x + 2)$$

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**QUESTION 8**

$(900 \times 2) \div 6 =$  \_\_\_\_\_.

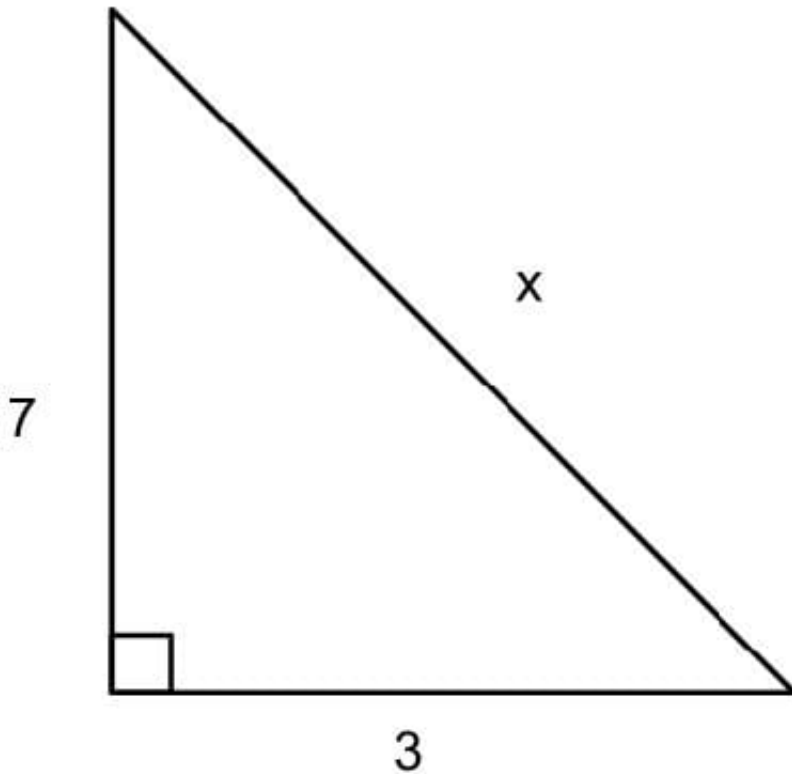
- A. 30
- B. 300
- C. 150
- D. 3,000

Correct Answer: B

Explanation:

$$(900 \times 2) \div 6 = 1,800 \div 6 = 300.$$

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**QUESTION 9**

In the diagram provided, what is x?

- A. 10.2893644
- B. 2.333333333
- C. 7.61577310586
- D. 21.23947643

Correct Answer: C

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**QUESTION 10**

A cube has a volume of 512 cubic inches. What is the length of one side of the cube?

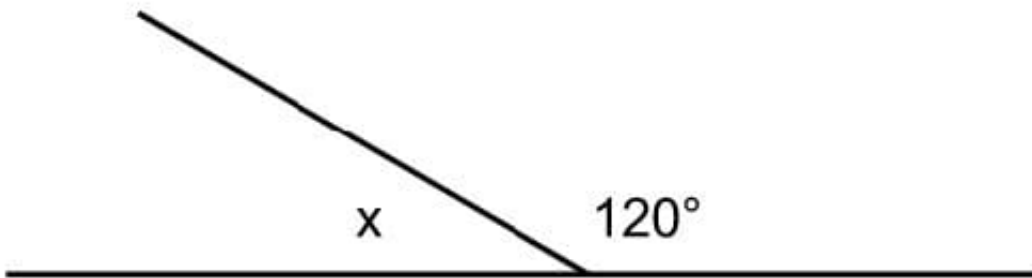
- A. 8 inches
- B. 64 inches

C. 128 inches

D. 16 inches

Correct Answer: A

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**QUESTION 11**

In the diagram, the straight line is divided by one angled line at  $120^\circ$ . Solve for the value of  $x$ .

A.  $60^\circ$

B.  $90^\circ$

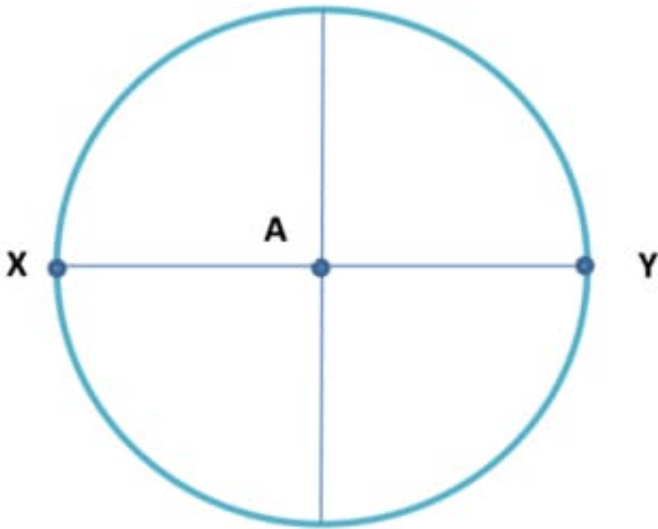
C.  $120^\circ$

D.  $180^\circ$

Correct Answer: A

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**QUESTION 12**



What is the diameter of the circle with center at point A if the distance from point A to point Y is 7?

- A. 14
- B. 7
- C. 21
- D. 49

Correct Answer: A

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### QUESTION 13

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).  $5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$ .

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### QUESTION 14

If  $y = 6$ , then  $2y \times y =$  \_\_\_\_\_.

- A. 12
- B. 72
- C. 18
- D. 242

Correct Answer: B

Explanation:

Substitute 6 for  $y$  the equation:  $2(6) \times 6 = 12 \times 6 = 72$ .

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## QUESTION 15

$x^2 \times x^4 =$  \_\_\_\_\_.

- A.  $x^6$
- B.  $x^8$
- C.  $2x^6$
- D.  $2x^8$

Correct Answer: A

Explanation:

If two exponents have the same base, you can multiply them by keeping the base and adding the exponents together.

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