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**Military**

# ASVAB-Mathematics-Knowledge

*ASVAB Section 6 : Mathematics Knowledge*



Question: 223

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

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.*

Question: 224

If  $a = 4$ , then  $a^3 \div a =$  \_\_\_\_\_.

- A. 4
- B. 12
- C. 64
- D. 16

Answer: D

Explanation:

$(4 \times 4 \times 4) \div 4 = 64 \div 4 = 16$

Question: 225

Which of the following is a prime number?

- A. 27
- B. 11
- C. 8
- D. 4

Answer: B

Explanation:

*A prime number is a number that can be divided evenly by itself or by one, but not by any other number. Choices 27, 8 and 4 can all be divided evenly by other numbers.*

Question: 226

$(x + 4)(x + 2) =$

\_\_\_\_\_.

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

Answer: D

**Explanation:**

Multiply the first variable in the first set of parentheses with the first variable in the second set of parentheses ( $x \times x = x^2$ ).  
Next, multiply the first variable in the first set of parentheses with the second number in the second set of parentheses ( $x \times 2 = 2x$ ). So far, the results are  $x^2 + 2x$ .  
Now, multiply the second number in the first set of parentheses to the first variable in the second set of parentheses ( $4 \times x = 4x$ ).  
Next, multiply the second variable in the first set of parentheses to the second number in the second set of parentheses ( $4 \times 2 = 8$ ). The solution is  $x^2 + 2x + 4x + 8$ . Combining the like terms results in  $x^2 + 6x + 8$ .

Question: 227

$1.5 \times 10^3 =$  \_\_\_\_\_.

- A. 45
- B. 150
- C. 1,500
- D. 15

Answer: C

**Explanation:**

$1.5 \times 10^3 = 1.5 \times (10 \times 10 \times 10) = 1.5 \times 1,000 = 1,500$ .

Question: 228

$(12 \text{ yards} + 14 \text{ feet}) \div 5 =$

\_\_\_\_\_.

- A. 12 feet
- B. 51/5 feet
- C. 10 feet
- D. 21/2 yards

Answer: C

**Explanation:**

Convert 12 yards and 14 feet to feet:  
 $(12 \text{ yards} \times 3 \text{ feet per yard}) + 14 \text{ feet} = 36 \text{ feet} + 14 \text{ feet} = 50 \text{ feet}$ . Divide by 5 as instructed:  $50 \text{ feet} \div 5 = 10 \text{ feet}$ .

Question: 229

$x^3 \times x^4 =$  \_\_\_\_\_.

- A.  $x^{12}$
- B.  $2 \times 7$
- C.  $2 \times 12$
- D.  $x^7$

Answer: D

**Explanation:**

If two powers have the same base, they can be multiplied by keeping the base and adding the powers together.

Question: 230

The fourth root of 16 is \_\_\_\_\_.

- A. 4
- B. 1
- C. 3
- D. 2

Answer: D

**Explanation:**

$2^4 = 16$ ; the fourth root of 16 is 2.

Question: 231

What's the equation of a line that passes through points (0, -1) and (2, 3)?

- A.  $y = 2x - 1$
- B.  $y = 2x + 1$
- C.  $x = 2y - 1$
- D.  $x = 2y + 1$

Answer: A

**Explanation:**

The slope of the line is equal to the change in y values divided by the change in x values. The change in y values is  $4(3 - -1)$ . The change in x values is 2 ( $2 - 0$ ).  $4/2 = 2$ .

To find the intercept, substitute 0 for x in the equation  $y = 2x + b - 1 = 2(0) + b$ . Therefore,  $b = -1$ , so the equation is  $y = 2x - 1$ .

Question: 232

The cube of 5 is \_\_\_\_\_.

- A. 125
- B. 25
- C. 15
- D. 50

Answer: A

**Explanation:**

The cube of 5 =  $5 \times 5 \times 5 = 125$ .

Question: 233

$2.5 \times 3^3 =$  \_\_\_\_\_.

- A. 22.5
- B. 75.0
- C. 67.5
- D. 675.0

Answer: C

**Explanation:**

$2.5 \times 3^3 = 2.5 (3 \times 3 \times 3) = 2.5 \times 27 = 67.50$ .

Question: 234

If  $x = 8$ , what's the value of y in the equation:  $y = (x^2 \div 4) - 2$ ?

- A. 14
- B. 16
- C. 18
- D. 20

Answer: A

**Explanation:**  $y = (x2 \div 4)$   
 $- 2 \ y = (82 \div 4) - 2 \ y = (64$   
 $\div 4) - 2 \ y = 16 - 2 = 14$



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