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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 a3 ÷ 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. 2×7
- C. 2×12
- 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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