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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 × 4 × 4) ÷ 4 = 64 ÷ 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. x2 + 6x + 6
B. x2 + 8x + 8
C. x2 + 8x + 6
D. x2 + 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 × x = x2).
Next, multiply the first variable in the first set of parentheses with the second number in the second set of parentheses (x × 2 = 2x). So far, the results are x2+ 2x.
Now, multiply the second number in the first set of parentheses to the first variable in the second set of parentheses (4 × x = 4x).
Next, multiply the second variable in the first set of parentheses to the second number in the second set of parentheses (4 × 2 = 8). The solution is x2+ 2x + 4x + 8. Combining the like terms results in x2+ 6x + 8.

Question: 227

1.5 × 103= _____.
A. 45
B. 150
C. 1,500
D. 15

Answer: C

Explanation:
1.5 × 103= 1.5 × (10 × 10 × 10) = 1.5 × 1,000 = 1,500.

Question: 228

(12 yards + 14 feet) ÷ 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 yards × 3 feet per yard) + 14 feet = 36 feet + 14 feet = 50 feet. Divide by 5 as instructed: 50 feet ÷ 5 = 10 feet.

Question: 229

x3 × x4 = _____.
A. x12
B. 2×7
C. 2×12
D. x7

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:
24 = 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 × 5 × 5 = 125.

Question: 233

2.5 × 33 = _____.
A. 22.5
B. 75.0
C. 67.5
D. 675.0

Answer: C

Explanation:
2.5 × 33= 2.5 (3 × 3 × 3) = 2.5 × 27 = 67.50.

Question: 234

If x = 8, what's the value of y in the equation: y = (x2 ÷ 4) – 2?

A. 1
4
B. 1
6
C. 1
8
D. 2
0

Answer: A

Explanation: *y = (x2 ÷ 4) – 2 y = (82 ÷ 4) – 2 y = (64 ÷ 4) – 2 y = 16 – 2 = 14*

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