Pre-Algebra Fundamentals

Mathematics · Answer Key · 25 Questions

1. What is the value of the expression 5 + 3 × 2?

A) 16
B) 11
C) 10
D) 13

2. In the algebraic expression 4x + 7, what is the number 4 called?

A) Variable
B) Exponent
C) Coefficient
D) Constant

3. Which operation should be performed first according to the order of operations (PEMDAS/BODMAS)?

A) Addition
B) Multiplication
C) Parentheses
D) Subtraction

4. What is the value of 2 to the power of 4 (2^4)?

A) 8
B) 16
C) 6
D) 12

5. If 3x = 18, what is the value of x?

A) 6
B) 5
C) 9
D) 3

6. What is the absolute value of -15?

A) -15
B) 0
C) 15
D) 1

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7. A polygon with five sides is called a:

A) Hexagon
B) Heptagon
C) Pentagon
D) Octagon

8. What is the perimeter of a rectangle with a length of 6cm and a width of 4cm?

A) 24cm
B) 10cm
C) 20cm
D) 12cm

9. Which number is a prime number?

A) 9
B) 15
C) 21
D) 17

10. What is the result of 10 - 2 × 3?

A) 24
B) 4
C) 8
D) 1

11. What is the sum of the angles in a triangle?

A) 90 degrees
B) 180 degrees
C) 270 degrees
D) 360 degrees

12. What is 25% of 80?

A) 10
B) 15
C) 20
D) 25

13. If a = 5 and b = 3, what is the value of a + b^2?

A) 14
B) 16
C) 26
D) 64

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14. What is the greatest common factor (GCF) of 12 and 18?

A) 2
B) 3
C) 6
D) 9

15. Which of the following is an irrational number?

A) 0.5
B) 3/4
C) Pi (?)
D) 7

16. A straight line angle measures exactly:

A) 45 degrees
B) 90 degrees
C) 180 degrees
D) 360 degrees

17. How many sides does a nonagon have?

A) 7
B) 8
C) 9
D) 10

18. What is the square root of 81?

A) 7
B) 8
C) 9
D) 11

19. In the coordinate plane, the point (0,0) is known as the:

A) Vertex
B) Origin
C) Axis
D) Quadrant

20. What is the value of 0 divided by 5?

A) 0
B) 5
C) Undefined
D) 1

21. Which of these represents a variable?

A) 10
B) +
C) x
D) =

22. What is the product of 0.5 and 0.5?

A) 0.1
B) 0.25
C) 0.025
D) 1

23. How many centimeters are in 2.5 meters?

A) 25cm
B) 250cm
C) 2500cm
D) 2.5cm

24. If an item costs $40 and is on sale for 10% off, how much is the discount?

A) $4
B) $10
C) $36
D) $5

25. Which number is equivalent to 10^3?

A) 30
B) 100
C) 1000
D) 10000

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