

Pre-Algebra Fundamentals

Mathematics · Practice Test · 25 Questions

1. What is the value of the expression $5 + 3 \times 2$?

- 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

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 $10 - 2 \times 3$?

- 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

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) $\frac{3}{4}$
- 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