



Mathematics Terms – Define & Identify

1. Integers

Definition: The set of numbers containing zero, the natural numbers (1, 2, 3, ...), and all the negatives of the natural numbers.

Question 1

Which of the following numbers is an integer?

- a) 4.5
 - b) -3
 - c) $\sqrt{2}$
 - d) 2.7
-

2. Factor

Definition: One of two or more expressions that are multiplied together to get a product.

Question 2

Which is a factor of 24?

- a) 7
 - b) 8
 - c) 10
 - d) 11
-

3. Term

Definition: A number, a variable, or a product of numbers and variables that can be added or subtracted in an expression. Example: In $x^2 + 3xy - 5y$, the terms are x^2 , $3xy$, and $-5y$.

Question 3

How many terms are in the expression $5a + 4b - 7c$?

- a) 1
 - b) 2
 - c) 3
 - d) 4
-

4. Variable

Definition: A letter used to represent a number value in an expression or an equation.

Question 4

In the expression $2x + 7$, what is the variable?

- a) 2
 - b) 7
 - c) x
 - d) 9
-

5. Operator

Definition: A symbol that represents a specific operation/computation on one or more numbers.

Question 5

In the equation $8 \times 4 + 2 = 34$, which part of the equation shows a symbol that represents a specific operation or computation on numbers?

- A. 8
- B. x
- C. 34
- D. 2

6. Expression

Definition: A mathematical phrase that can contain numbers, operators, and variables, but no equal sign or inequality sign.

Question 6

Which of the following is an expression?

- a) $5 + 3 = 8$
 - b) $7y - 2$
 - c) $12 \div 4 = 3$
 - d) $10 = x + 4$
-

7. Equation

Definition: A mathematical statement that says two expressions have the same value, using an equals sign.

Question 7

Which is an example of an equation?

- a) $5x + 2$
 - b) $7y - 3$
 - c) $x^2 - 4 = 0$
 - d) $4a + b$
-

8. Exponent

Definition: A number that indicates the operation of repeated multiplication.

Question 8

In 3^4 , the exponent is:

- a) 3
 - b) 4
 - c) 12
 - d) 81
-

9. Coefficient

Definition: The number multiplying a variable in an algebraic expression.

Question 9

What is the coefficient in the expression $9x + 2$?

- a) 2
 - b) 9
 - c) x
 - d) 11
-

10. Perimeter

Definition: The sum of the lengths of the sides of a polygon.

Question 10

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

- a) 10 cm
- b) 20 cm
- c) 24 cm
- d) 12 cm

11. Area

Definition: The extent of a flat region or surface measured in square units.

Question 11

What is the area of a rectangle with length 8 cm and width 5 cm?

- a) 13 cm^2
 - b) 16 cm^2
 - c) 40 cm^2
 - d) 25 cm^2
-

12. Volume

Definition: A measurement of space, or capacity.

Question 12

What is the volume of a cube with side length 3 cm?

- a) 9 cm^3
 - b) 18 cm^3
 - c) 27 cm^3
 - d) 36 cm^3
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13. Angle

Definition: The union of two rays with a common endpoint, called the vertex.

Question 13

What is the measure of a right angle?

- a) 45°
 - b) 90°
 - c) 180°
 - d) 360°
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14. Radius

Definition: The distance from the centre to a point on a circle.

Question 14

If the diameter of a circle is 14 cm, what is the radius?

- a) 7 cm
- b) 14 cm
- c) 28 cm
- d) 21 cm

15. Diameter

Definition: The distance across a circle through its center.

Question 15

If the radius of a circle is 9 cm, what is the diameter?

- a) 4.5 cm
 - b) 9 cm
 - c) 18 cm
 - d) 27 cm
-

16. Circumference

Definition: The distance around a circle.

Question 16

Which formula represents the circumference of a circle with radius r ?

- a) πr^2
 - b) $2\pi r$
 - c) r^2
 - d) πd^2
-

17. Parallel

Definition: Two lines are parallel if they are in the same plane and never intersect.

Question 17

Which of these pairs of lines are parallel?

- a) The opposite sides of a rectangle
 - b) The diagonals of a square
 - c) The hands of a clock at 3:00
 - d) The two sides of a triangle
-

18. Perpendicular

Definition: Two lines are perpendicular if the angle between them is 90 degrees.

Question 18

Which pair of lines are perpendicular?

- a) The edges of a book's cover
- b) The diagonals of a rectangle
- c) The sides of an equilateral triangle
- d) Parallel railway tracks

19. Intercept

Definition: The coordinate of a point at which a line intersects an axis.

Question 19

In the graph of $y = 2x + 3$, the y-intercept is:

- a) 2
- b) 3
- c) (2, 0)
- d) (0, 3)

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