



## Mathematics Terms – Define & Identify

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### 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

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### 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

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### 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

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#### 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

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#### 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)  $10 = x + 4$

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## 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)  $4a + b$

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## 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

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## 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

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## 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

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## 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)  $13 \text{ cm}^2$
- b)  $16 \text{ cm}^2$
- c)  $40 \text{ cm}^2$
- d)  $25 \text{ cm}^2$

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## 12. Volume

*Definition:* A measurement of space, or capacity.

### Question 12

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

- a)  $9 \text{ cm}^3$
- b)  $18 \text{ cm}^3$
- c)  $27 \text{ cm}^3$
- d)  $36 \text{ cm}^3$

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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)  $45^\circ$
- b)  $90^\circ$
- c)  $180^\circ$
- d)  $360^\circ$

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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

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## 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

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## 16. Circumference

*Definition:* The distance around a circle.

### Question 16

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

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

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## 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

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## 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

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## 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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