

# CTET Mathematics Practice Test

## Paper I (For Classes I–V)

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### General Instructions

#### Practice Test - 15

1. This paper contains a total of **30 questions**.
2. All questions are **compulsory**.
3. Each question carries **1 mark**.
4. There is **no negative marking**.
5. The maximum marks for this test are **30**.
6. The total duration of the test is **45 minutes**.
7. Choose the most appropriate answer from the given options.
8. Use of calculators, mobile phones, or any electronic devices is **not permitted**.
9. Rough work may be done on the space provided at the end of the paper.
10. Read each question carefully before answering.

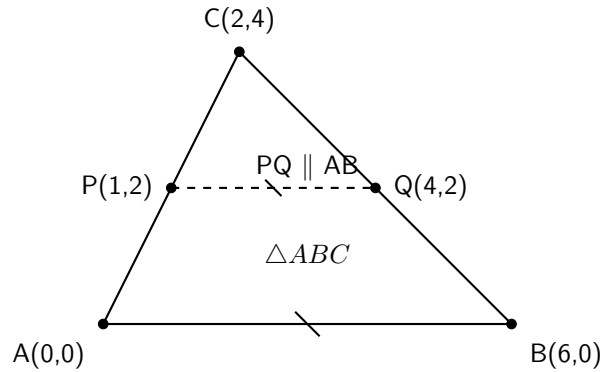
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**All the Best!**

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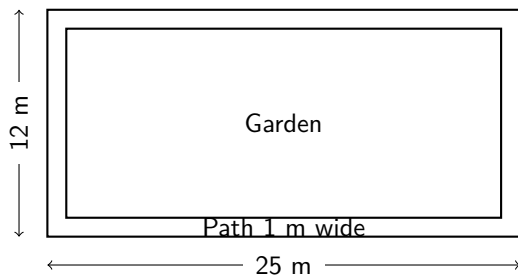
1. The smallest 4-digit number that is exactly divisible by 18 is:
  - (a) 1008
  - (b) 1002
  - (c) 1009
  - (d) 1010

2. A teacher draws a triangle  $ABC$  with coordinates  $A(0, 0)$ ,  $B(6, 0)$ , and  $C(2, 4)$ . A line parallel to the base  $AB$  cuts the sides  $AC$  and  $BC$  at  $P(1, 2)$  and  $Q(4, 2)$ , respectively. Which of the following statements is correct?



- (a)  $\triangle APQ$  and  $\triangle ABC$  are similar.  
 (b)  $\triangle APQ$  and  $\triangle ABC$  are congruent.  
 (c)  $PQ = 3AB$ .  
 (d) The area of  $\triangle APQ$  equals that of  $\triangle ABC$ .
3. If 1.25 kg of sugar costs Rs. 50, what is the cost of 3 kg of sugar?
- (a) Rs. 100  
 (b) Rs. 120  
 (c) Rs. 150  
 (d) Rs. 160
4. Which property of multiplication is shown by the equation  $7 \times (5+3) = 7 \times 5 + 7 \times 3$ ?
- (a) Commutative Property  
 (b) Associative Property  
 (c) Distributive Property  
 (d) Identity Property
5. The sum of all odd numbers between 50 and 60 is:
- (a) 255  
 (b) 275  
 (c) 285  
 (d) 275

6. A student solved  $48 \div 4$  as 12, then checked by  $12 \times 4 = 48$ . This shows understanding of:
- (a) Estimation
  - (b) Inverse relationship between multiplication and division
  - (c) Place value
  - (d) Addition of multiples
7. The perimeter of a square is 96 cm. Its area is:
- (a)  $576 \text{ cm}^2$
  - (b)  $144 \text{ cm}^2$
  - (c)  $324 \text{ cm}^2$
  - (d)  $256 \text{ cm}^2$
8. A teacher gives students marbles to group and form equal sets. This activity develops the concept of:
- (a) Subtraction
  - (b) Division as equal sharing
  - (c) Multiplication as repeated addition
  - (d) Measurement
9. A rectangular garden measures 25 m by 12 m. A path 1 m wide is constructed inside along the boundary. What is the area of the path?



- (a)  $46 \text{ m}^2$
  - (b)  $72 \text{ m}^2$
  - (c)  $74 \text{ m}^2$
  - (d)  $70 \text{ m}^2$
10. Which of the following shapes has all sides equal but no right angles?
- (a) Square

- (b) Rectangle
  - (c) Rhombus
  - (d) Trapezium
11. A circle has centre at  $(2, 2)$  and passes through  $(6, 2)$ . Find its radius.
- (a) 2
  - (b) 3
  - (c) 4
  - (d) 5
12. A child confuses area with perimeter. Which teaching method will best address this misconception?
- (a) Repetition of formulae
  - (b) Use of concrete models like tiles or paper cutouts
  - (c) Oral questioning only
  - (d) Assigning extra homework
13. In a class of 40 students,  $\frac{1}{5}$  were absent. How many were present?
- (a) 30
  - (b) 32
  - (c) 34
  - (d) 36
14. The teacher introduces subtraction of fractions by using paper strips divided into equal parts. This follows which learning approach?
- (a) Abstract-first approach
  - (b) Drill-based approach
  - (c) Concrete–pictorial–abstract approach
  - (d) Theoretical approach
15. The average of 14, 18, and 20 is:
- (a) 17
  - (b) 18
  - (c) 16
  - (d) 19

16. A clock shows 2 : 45. What will be the time after 3 hours 30 minutes?
- (a) 6 : 15
  - (b) 5 : 45
  - (c) 6 : 00
  - (d) 5 : 30
17. Which of the following is **not** a property of even numbers?
- (a)  $\text{Even} + \text{Even} = \text{Even}$
  - (b)  $\text{Even} \times \text{Odd} = \text{Odd}$
  - (c)  $\text{Even} \div 2 = \text{Whole number}$
  - (d)  $\text{Even} + \text{Odd} = \text{Odd}$
18. A pictograph shows five apples representing 10 fruits. What will represent 25 fruits?
- (a) 2 apples
  - (b) 3 apples
  - (c) 4 apples
  - (d) 5 apples
19. The temperature at 6 AM was  $12^{\circ}\text{C}$  and at noon it was  $28^{\circ}\text{C}$ . What is the rise in temperature?
- (a)  $14^{\circ}\text{C}$
  - (b)  $15^{\circ}\text{C}$
  - (c)  $16^{\circ}\text{C}$
  - (d)  $17^{\circ}\text{C}$
20. A teacher uses a number line to teach negative numbers. This method mainly supports:
- (a) Conceptual understanding
  - (b) Memorization of rules
  - (c) Abstract reasoning only
  - (d) Algorithmic drill
21. What is the sum of all prime numbers less than 20?
- (a) 72

- (b) 77
  - (c) 78
  - (d) 80
22. In a data handling activity, 10 students recorded the number of siblings: 0, 1, 1, 2, 2, 2, 3, 3, 4, 4. What is the mode?
- (a) 2
  - (b) 3
  - (c) 4
  - (d) 1
23. Which of the following is an **open-ended** question that promotes divergent thinking?
- (a) What is  $9 \times 8$ ?
  - (b) Write all possible rectangles that can have an area of 24 square cm.
  - (c) What is the perimeter of a square of side 5 cm?
  - (d) How many sides does a pentagon have?
24. The product of two numbers is 144 and one of them is 12. Find the other number.
- (a) 10
  - (b) 11
  - (c) 12
  - (d) 15
25. A teacher designs a game of “number cards” to help children discover multiples and factors. This best represents:
- (a) Constructivist approach
  - (b) Behaviorist approach
  - (c) Rote-learning method
  - (d) Lecture method
26. Which of the following is the **correct descending order** of decimals?
- (a) 3.21, 3.12, 3.02
  - (b) 3.12, 3.02, 3.21

- (c) 3.02, 3.12, 3.21
  - (d) 3.21, 3.02, 3.12
27. A teacher observes that a child consistently writes 24 as 42. This may indicate:
- (a) Reversal error due to visual-spatial difficulty
  - (b) Poor memory
  - (c) Lack of concentration
  - (d) Lack of numerical knowledge
28. The total surface area of a cube with side 7 cm is:
- (a)  $294 \text{ cm}^2$
  - (b)  $343 \text{ cm}^2$
  - (c)  $392 \text{ cm}^2$
  - (d)  $441 \text{ cm}^2$
29. Which tool is most suitable for assessing a student's understanding of 3D shapes?
- (a) Written test
  - (b) Observation during hands-on model activity
  - (c) Oral recitation
  - (d) Multiple-choice quiz only
30. A child counts 0, 5, 10, 15, . . . . What concept is being developed?
- (a) Skip counting
  - (b) Odd numbers
  - (c) Factors
  - (d) Division