

CTET Mathematics Practice Test

Paper I (For Classes I–V)

General Instructions

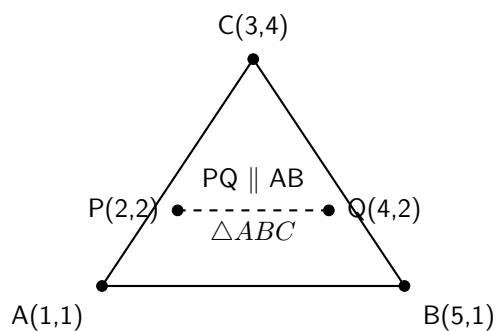
Practice Test - 18

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.

All the Best!

1. The predecessor of the smallest four-digit number divisible by 8 is:
(a) 999
(b) 1007
(c) 1000
(d) 9999
2. Which property is illustrated by $37 + 0 = 37$?

- (a) Commutative property
 - (b) Additive identity property
 - (c) Distributive property
 - (d) Associative property
3. A rectangle has a perimeter of 96 m. If its length is twice its breadth, what is its area?
- (a) 256 m^2
 - (b) 384 m^2
 - (c) 512 m^2
 - (d) 576 m^2
4. In a classroom, a teacher gives students objects of different shapes and asks them to group them by number of sides. This activity promotes:
- (a) Drill-based learning
 - (b) Conceptual understanding
 - (c) Mechanical memorization
 - (d) Abstract computation
5. Find the sum of all even numbers between 101 and 199.
- (a) 7450
 - (b) 7400
 - (c) 7500
 - (d) 7600
6. The number which is both a square and a cube is:
- (a) 36
 - (b) 64
 - (c) 49
 - (d) 81
7. The coordinates of vertices of a triangle are $A(1,1)$, $B(5,1)$, and $C(3,4)$. A line parallel to AB intersects AC at $P(2,2)$ and BC at $Q(4,2)$. What is the length of PQ ?



- (a) 2 units
 - (b) 3 units
 - (c) 4 units
 - (d) 5 units
8. A student says that $0.4 > 0.39$ because 39 is smaller than 4. The error lies in misunderstanding:
- (a) Place value in decimals
 - (b) Addition of decimals
 - (c) Multiplication rule
 - (d) Division of decimals
9. How many prime numbers are there between 10 and 30?
- (a) 6
 - (b) 7
 - (c) 8
 - (d) 9
10. The area of a circle with center $(0,0)$ passing through $(0,5)$ is:
- (a) 25π
 - (b) 50π
 - (c) 100π
 - (d) 10π
11. A clock shows 7:50. The measure of the smaller angle between the hour and minute hand is:
- (a) 95°
 - (b) 100°

- (c) 110°
 - (d) 120°
12. In teaching multiplication, a teacher asks students to arrange marbles in equal groups. This represents which learning stage?
- (a) Abstract
 - (b) Pictorial
 - (c) Symbolic
 - (d) Concrete
13. A car travels 54 km in 3 hours. What is its speed in m/s?
- (a) 4.5
 - (b) 5
 - (c) 6
 - (d) 7
14. Find the least common multiple (LCM) of 15, 20, and 25.
- (a) 100
 - (b) 150
 - (c) 200
 - (d) 300
15. A cuboid has dimensions 6 cm, 8 cm, and 10 cm. Its total surface area is:
- (a) 280 cm^2
 - (b) 376 cm^2
 - (c) 400 cm^2
 - (d) 488 cm^2
16. When students measure classroom objects with paper strips, the teacher's main purpose is to:
- (a) Reinforce memorization of units
 - (b) Introduce standard units of measurement conceptually
 - (c) Teach precision in decimals
 - (d) Focus on calculation speed

17. Which of the following fractions is equal to $\frac{3}{5}$?
- (a) $\frac{9}{15}$
 - (b) $\frac{12}{25}$
 - (c) $\frac{5}{3}$
 - (d) $\frac{6}{8}$
18. The difference between the greatest and smallest 4-digit numbers formed using digits 2, 4, 6, and 8 (without repetition) is:
- (a) 6318
 - (b) 6420
 - (c) 6534
 - (d) 6642
19. A student explains that a cube and a cuboid both have 12 edges. This shows:
- (a) Understanding of properties of solids
 - (b) Confusion between 2D and 3D figures
 - (c) Memorization without meaning
 - (d) Incorrect spatial reasoning
20. A right triangle has vertices $A(0,0)$, $B(0,6)$, and $C(8,0)$. Find its area.
- (a) 12 sq units
 - (b) 24 sq units
 - (c) 36 sq units
 - (d) 48 sq units
21. The perimeter of a square is 64 cm. Its diagonal is:
- (a) 8 cm
 - (b) 12 cm
 - (c) $16\sqrt{2}$ cm
 - (d) 32 cm
22. Which of the following situations shows estimation skill in daily life?
- (a) Counting exact number of marbles

- (b) Guessing the total price of groceries before billing
 - (c) Using calculator for sums
 - (d) Measuring with a scale
23. A data set represents the number of books read by students: 3, 4, 4, 5, 6, 7, 8. The mode of this data is:
- (a) 4
 - (b) 5
 - (c) 6
 - (d) 7
24. A line parallel to the base of a trapezium divides its height in the ratio 2:3. If the smaller trapezium has an area of 40 cm^2 , the area of the larger trapezium is:
- (a) 60 cm^2
 - (b) 90 cm^2
 - (c) 100 cm^2
 - (d) 120 cm^2
25. While teaching fractions, the teacher divides a circular paper into 8 equal parts and shades 3 parts. This helps students understand:
- (a) Addition of fractions
 - (b) Representation of fractions as parts of a whole
 - (c) Decimal system
 - (d) Factorization
26. Find the missing number: 7, 14, 28, 56, ____.
- (a) 84
 - (b) 100
 - (c) 112
 - (d) 120
27. A teacher encourages peer explanation when solving a problem. This promotes:
- (a) Cooperative learning
 - (b) Competitive learning

- (c) Individualistic learning
 - (d) Teacher dependence
28. Convert 2.5 km into centimeters.
- (a) 25000 cm
 - (b) 250000 cm
 - (c) 2500000 cm
 - (d) 2500 cm
29. A pictograph shows that each symbol represents 5 students. If there are 9 symbols, how many students are represented?
- (a) 25
 - (b) 35
 - (c) 40
 - (d) 45
30. In a formative assessment, the teacher's main purpose is to:
- (a) Rank students
 - (b) Grade final achievement
 - (c) Identify learning gaps and provide feedback
 - (d) Compare performance with other schools