

CTET Mathematics Practice Test

Paper I (For Classes I–V)

General Instructions

Practice Test - 26

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 total number of even factors of 24 is:
 - (a) 6
 - (b) 8
 - (c) 4
 - (d) 3
2. A student correctly writes the number 4080 but reads it as "Four hundred eight zero." This error highlights a gap in understanding:

- (a) Basic addition facts.
 - (b) The multiplicative property of zero.
 - (c) The **place value** system of large numbers.
 - (d) Simple fractions.
3. If 15% of a number is 45, what is the number?
- (a) 300
 - (b) 350
 - (c) 250
 - (d) 400
4. A line segment connects the points $A(-2, 5)$ and $B(4, 5)$. What is the midpoint of the line segment AB ?
- (a) $(1, 5)$
 - (b) $(2, 5)$
 - (c) $(3, 5)$
 - (d) $(1, 0)$
5. What is the value of: $10 - 2 \times 3 + 12 \div 4$?
- (a) 7
 - (b) 4
 - (c) 13
 - (d) 8
6. A rectangular swimming pool is 10 meters long and 5 meters wide. If a path of width 1 meter is built around the pool, what is the area of the path in square meters?
- (a) 30 square meters
 - (b) 34 square meters
 - (c) 38 square meters
 - (d) 40 square meters
7. A student solves the problem $2 \times 5 = 10$ by drawing 2 groups of 5 objects each and counting the total. This approach aligns with which stage of learning mathematics? (Pedagogy)
- (a) Abstract (Symbolic)

- (b) Representational (Iconic/Pictorial)
 - (c) Formal Algorithmic
 - (d) Deductive Reasoning
8. What is the sum of the reciprocal of 2 and the reciprocal of 3?
- (a) $\frac{5}{6}$
 - (b) $\frac{1}{6}$
 - (c) $\frac{2}{3}$
 - (d) $\frac{3}{2}$
9. A factory produced 12,500 units in January and 13,850 units in February. If the target production for two months was 30,000 units, how many more units are needed to reach the target?
- (a) 3650 units
 - (b) 2650 units
 - (c) 3560 units
 - (d) 3850 units
10. The total number of faces, edges, and vertices of a cuboid are F , E , V respectively. What is the value of $F + E + V$?
- (a) 24
 - (b) 26
 - (c) 20
 - (d) 28
11. A bottle contains $\frac{7}{8}$ liters of juice. If 500 milliliters of juice are poured out, how much juice remains in the bottle, in milliliters?
- (a) 875 ml
 - (b) 375 ml
 - (c) 250 ml
 - (d) 475 ml
12. The use of low-cost or readily available teaching aids (like pebbles, leaves, stick bundles) in mathematics classrooms supports: (Pedagogy)
- (a) Making the classroom technologically advanced.

- (b) Emphasizing abstract definitions.
 - (c) Making learning ****concrete, relevant, and accessible**** to all students.
 - (d) Discouraging collaborative learning.
13. The time 7 : 35 PM is how many hours and minutes before midnight (12 : 00 AM)?
- (a) 4 hours 25 minutes
 - (b) 5 hours 25 minutes
 - (c) 4 hours 35 minutes
 - (d) 5 hours 35 minutes
14. Which number is not a multiple of 7?
- (a) 91
 - (b) 119
 - (c) 133
 - (d) 144
15. If a teacher asks a student to estimate the total number of pages in a stack of 10 books, this activity primarily addresses which skill?
- (a) Exact multiplication.
 - (b) ****Estimation and mental arithmetic****.
 - (c) Reading comprehension.
 - (d) Drawing geometric figures.
16. The coordinates of a triangle are $P(0, 0)$, $Q(5, 0)$, and $R(0, 7)$. What is the perimeter of $\triangle PQR$?
- (a) 12 units
 - (b) 17 units
 - (c) $\sqrt{74}$ units
 - (d) $12 + \sqrt{74}$ units
17. Arrange the following numbers in ascending order: $0.3, \frac{1}{4}, 0.35, \frac{2}{5}$
- (a) $\frac{1}{4}, 0.3, 0.35, \frac{2}{5}$
 - (b) $\frac{2}{5}, 0.35, 0.3, \frac{1}{4}$
 - (c) $0.3, \frac{1}{4}, 0.35, \frac{2}{5}$

- (d) $\frac{1}{4}, 0.35, 0.3, \frac{2}{5}$
18. What is the sum of all odd numbers between 1 and 10?
- (a) 20
 - (b) 25
 - (c) 15
 - (d) 24
19. The main pedagogical reason for encouraging students to write their own word problems is: (Pedagogy)
- (a) To increase the number of assignments.
 - (b) To test their creative writing skills.
 - (c) To deepen their **conceptual understanding** of how mathematical operations apply in real-world contexts.
 - (d) To avoid providing problems from the textbook.
20. A cube is formed by joining two identical cuboids, each measuring 3 cm $\times$ 3 cm $\times$ 6 cm. What is the volume of the resulting cube?
- (a) 108 cubic cm
 - (b) 216 cubic cm
 - (c) 54 cubic cm
 - (d) 72 cubic cm
21. If a whole is represented by 1, and three-fourths of it is X , and one-fifth of the remainder is Y , what is the value of $X + Y$?
- (a) $\frac{7}{10}$
 - (b) $\frac{4}{5}$
 - (c) $\frac{17}{20}$
 - (d) $\frac{19}{20}$
22. What is the difference in value between $75 \div 5$ and 5×3 ?
- (a) 0
 - (b) 1
 - (c) 5
 - (d) 10

23. Which of the following is an example of a good **mathematics assessment task** for the primary level?
- (a) A multiple-choice quiz on the definition of an integer.
 - (b) A performance task requiring students to design a symmetrical logo for their school.
 - (c) A test focused purely on memorizing the first 100 digits of Pi.
 - (d) A quick fire round on complex algebraic equations.
24. A number when multiplied by itself is 169. The number is:
- (a) 12
 - (b) 13
 - (c) 14
 - (d) 16
25. The total number of hours in 3 days is:
- (a) 72 hours
 - (b) 48 hours
 - (c) 96 hours
 - (d) 60 hours
26. Which geometric term describes a straight path that extends infinitely in only one direction from a fixed point?
- (a) Line Segment
 - (b) Line
 - (c) Ray
 - (d) Plane
27. A student is unable to proceed with a complex division problem. The teacher intervenes and guides the student by breaking the problem into smaller, manageable steps. This support is pedagogically known as: (Pedagogy)
- (a) Direct instruction.
 - (b) Rote learning.
 - (c) **Scaffolding**.
 - (d) Summative assessment.

28. Find the missing term in the sequence: 10, 20, 40, _____, 160
- (a) 60
 - (b) 80
 - (c) 100
 - (d) 120
29. If a square has an area of 81 square meters, what is its perimeter?
- (a) 9 meters
 - (b) 18 meters
 - (c) 36 meters
 - (d) 81 meters
30. When using manipulatives like counting blocks, the teacher should ensure they: (Pedagogy)
- (a) Only use them once for a demonstration.
 - (b) Allow students to physically ****interact**** with them to construct their own understanding.
 - (c) Replace all other teaching methods with manipulatives.
 - (d) Focus only on abstract mathematical symbols.
-