
CTET Mathematics Practice Test

Paper I (For Classes I–V)

General Instructions

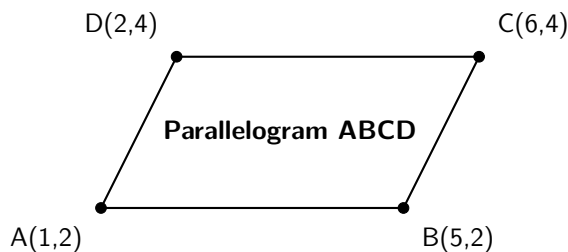
Practice Test - 20

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. A number is divided by 8 and the quotient is 12 with a remainder of 3. What is the number?
 - (a) 96
 - (b) 99
 - (c) 100
 - (d) 93

2. When designing a mathematics lesson, the most effective way to address ****learning difficulties**** among diverse learners is by:
 - (a) Giving all students the same advanced problems.
 - (b) Using only one teaching method for consistency.
 - (c) Varying the instructional methods, pace, and assessment tools.
 - (d) Focusing solely on verbal explanations and avoiding visual aids.
3. What is the sum of the smallest 5-digit number and the largest 4-digit number?
 - (a) 19999
 - (b) 19000
 - (c) 10999
 - (d) 100000
4. A cube has a total surface area of 150 square cm. What is the length of one edge of the cube?
 - (a) 25 cm
 - (b) 5 cm
 - (c) 10 cm
 - (d) 15 cm
5. The coordinates of the vertices of a parallelogram are $A(1, 2)$, $B(5, 2)$, $C(6, 4)$, and $D(2, 4)$. What is the length of the base AB ?



- (a) 4 units
 - (b) 5 units
 - (c) 6 units
 - (d) 3 units
6. A water bottle can hold 1.5 liters of water. If a student drinks 350 milliliters from it, how many milliliters of water are left in the bottle?

- (a) 1150 ml
 - (b) 1250 ml
 - (c) 1050 ml
 - (d) 1350 ml
7. If 1 hour = 60 minutes and 1 minute = 60 seconds, then 1 week is equal to:
- (a) 10080 minutes
 - (b) 10800 minutes
 - (c) 420 minutes
 - (d) 7200 minutes
8. In the context of mathematics pedagogy, **mathematization** primarily involves:
- (a) Memorizing all mathematical theorems and formulas.
 - (b) Using mathematical concepts and processes to understand and solve real-world problems.
 - (c) Focusing only on abstract calculation speed.
 - (d) Replacing all problem-solving with calculator use.
9. What is the fractional equivalent of 0.625 in its simplest form?
- (a) $\frac{5}{8}$
 - (b) $\frac{3}{5}$
 - (c) $\frac{1}{2}$
 - (d) $\frac{7}{12}$
10. The total cost of 4 pens and 3 notebooks is 150 units. If the cost of one pen is 15 units, what is the cost of one notebook?
- (a) 20 units
 - (b) 30 units
 - (c) 40 units
 - (d) 50 units
11. Which number is the smallest common multiple of 4, 6, and 8?
- (a) 48
 - (b) 24

- (c) 12
(d) 36
12. A teacher observes a student having difficulty with the concept of division as ****repeated subtraction****. The most suitable visual aid for remedial work would be:
- (a) A protractor.
(b) Base Ten Blocks to model grouping and removal.
(c) A calendar.
(d) A multiplication chart.
13. Simplify the expression: $\frac{1}{3} \times \left(\frac{1}{2} + \frac{1}{6}\right)$
- (a) $\frac{2}{9}$
(b) $\frac{1}{9}$
(c) $\frac{4}{9}$
(d) $\frac{1}{3}$
14. Which pattern describes the sequence: 2, 6, 18, 54, ...
- (a) Add 4
(b) Multiply by 3
(c) Add 4, Add 12, Add 36, ...
(d) Square of the preceding number
15. A square piece of land has a side length of 20 meters. If the cost of fencing is 50 units per meter, what is the total cost of fencing the land?
- (a) 1000 units
(b) 2000 units
(c) 4000 units
(d) 5000 units
16. Which of the following is an example of an **associative property** in addition?
- (a) $5 + 0 = 5$
(b) $5 + 3 = 3 + 5$
(c) $(5 + 3) + 2 = 5 + (3 + 2)$

- (d) $5 \times (3 + 2) = 5 \times 3 + 5 \times 2$
17. What is the difference in place values of the digit '9' in the numbers 981 and 198?
- (a) 900
(b) 810
(c) 90
(d) 99
18. The use of a **Geoboard** in a primary mathematics classroom is most effective for teaching concepts related to:
- (a) Basic arithmetic operations.
(b) Measurement of volume.
(c) Perimeter, area, and properties of 2D shapes.
(d) Time and speed.
19. A man starts his journey at 9 : 45 AM and arrives at his destination at 3 : 10 PM on the same day. What is the total duration of his journey?
- (a) 5 hours 25 minutes
(b) 5 hours 35 minutes
(c) 6 hours 25 minutes
(d) 6 hours 35 minutes
20. A data set of students' heights in cm is collected: 120, 125, 120, 130, 125, 120. What is the mode of this data set?
- (a) 125
(b) 130
(c) 120
(d) 123
21. In the fraction $\frac{3}{5}$, if the numerator is increased by 2, and the denominator is decreased by 1, the new fraction is:
- (a) $\frac{5}{4}$
(b) $\frac{1}{4}$
(c) $\frac{4}{5}$

- (d) $\frac{5}{6}$
22. Which set of coordinates forms a straight line segment parallel to the X-axis?
- (a) $(1, 1), (3, 4)$
 - (b) $(2, 5), (2, 8)$
 - (c) $(4, 6), (7, 6)$
 - (d) $(0, 0), (5, 5)$
23. Which of the following is **not** a good reason for the use of non-standard units (like hand-span, foot-length) in introductory measurement lessons?
- (a) To motivate students to learn about the need for standard units.
 - (b) To connect measurement to real-life contexts.
 - (c) To provide highly accurate, standardized results.
 - (d) To highlight the concept of measurement itself.
24. What is the value of $(0.7 \times 0.7) - (0.3 \times 0.3)$?
- (a) 0.4
 - (b) 0.49
 - (c) 0.4
 - (d) 0.7
25. If a number is tripled and then 7 is subtracted, the result is 11. What is the number?
- (a) 6
 - (b) 7
 - (c) 8
 - (d) 4
26. Which of the following is a composite number that is also an odd number?
- (a) 17
 - (b) 21
 - (c) 23
 - (d) 2

27. Which of the following illustrates a focus on **conceptual understanding** in mathematics assessment?
- (a) Asking students to list the multiplication tables up to 10.
 - (b) Asking students to solve an unfamiliar word problem that requires applying a known principle.
 - (c) Conducting a speed test on simple arithmetic facts.
 - (d) Checking if the final answer matches the key, regardless of the method used.
28. A box contains 340 pencils. If the pencils are equally distributed among 17 students, how many pencils does each student receive?
- (a) 20
 - (b) 2
 - (c) 17
 - (d) 18
29. The process of **Venn Diagram Basics (informal)** in the primary syllabus is mainly designed to teach:
- (a) Complex statistical modeling.
 - (b) Classification, sorting, and set relationship concepts.
 - (c) Abstract graph theory.
 - (d) Advanced geometrical proofs.
30. If a road sign indicates a distance of 4 km500 meters, what is this distance when written entirely in meters?
- (a) 4050 meters
 - (b) 450 meters
 - (c) 4500 meters
 - (d) 4005 meters
-