

CTET Mathematics Practice Test

Paper I (For Classes I–V)

General Instructions

Practice Test - 22

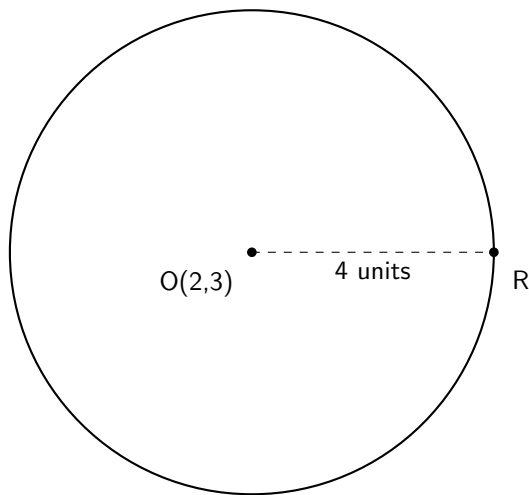
1. This paper contains a total of **30 questions**.
2. All questions are **compulsory**.
3. Each question carries **1 mark**.
4. There is **no negative marking**.
5. The maximum marks for this test are **30**.
6. The total duration of the test is **45 minutes**.
7. Choose the most appropriate answer 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 teacher wants to introduce the concept of fractions to Class III students. Which of the following activities is most suitable for this purpose?
 - (a) Asking students to solve fraction problems on paper
 - (b) Using a pizza cut into 8 equal slices to show parts of a whole
 - (c) Writing fractions on the board and asking students to memorize them

- (d) Giving a lecture on the history of fractions
2. The smallest 4-digit number formed by the digits 0, 3, 5, 7, 9 (using each digit only once) is:
- (a) 3057
 - (b) 3059
 - (c) 3075
 - (d) 3079
3. In a class, the teacher asks students to find the perimeter of a rectangle with length 12 cm and breadth 8 cm. A student answers 40 cm. The teacher should:
- (a) Praise the student for the correct answer
 - (b) Ask the student to explain the method used
 - (c) Correct the student and explain the correct method
 - (d) Ignore the answer and move on
4. A number is divisible by 3 if the sum of its digits is divisible by 3. Which of the following numbers is divisible by 3?
- (a) 1234
 - (b) 1235
 - (c) 1236
 - (d) 1237
5. The coordinates of a triangle ABC are A(0,0), B(4,0), and C(2,4). A line parallel to BC intersects AB at (1, y) and AC at (x, 2). The value of x is:
- (a) 1
 - (b) 1.5
 - (c) 2
 - (d) 2.5
6. Which of the following is the best method to teach the concept of time to Class II students?
- (a) Using a digital clock
 - (b) Using a sand timer

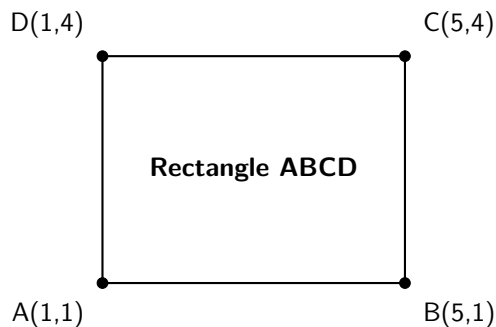
- (c) Using a wall clock with movable hands
 - (d) Asking students to memorize the time table
7. The difference between the largest and smallest 3-digit numbers formed by the digits 2, 4, 6 (using each digit only once) is:
- (a) 495
 - (b) 396
 - (c) 294
 - (d) 198
8. A teacher wants to assess students' understanding of symmetry. Which of the following activities is most appropriate?
- (a) Asking students to draw symmetrical shapes
 - (b) Showing pictures of symmetrical objects and asking students to identify the line of symmetry
 - (c) Giving a lecture on the definition of symmetry
 - (d) Asking students to memorize the types of symmetry
9. The coordinates of a circle are given as center (2,3) and radius 4.
- Circle with center (2,3) and radius 4**



The equation of the circle is:

- (a) $(x - 2)^2 + (y - 3)^2 = 16$
- (b) $(x + 2)^2 + (y + 3)^2 = 16$
- (c) $(x - 2)^2 + (y - 3)^2 = 4$
- (d) $(x + 2)^2 + (y + 3)^2 = 4$

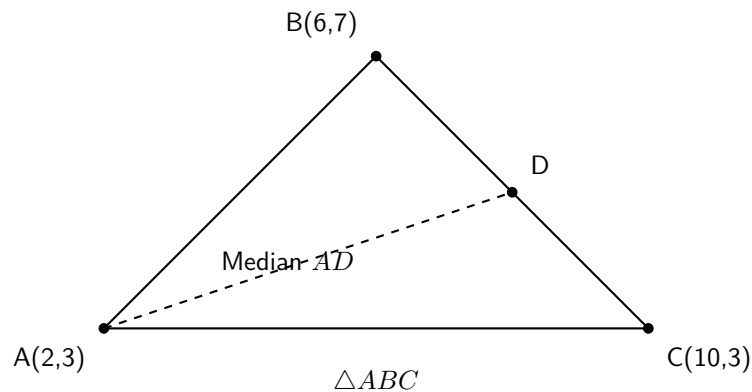
10. A teacher wants to teach the concept of area to Class IV students. Which of the following activities is most suitable?
- (a) Asking students to calculate the area of a rectangle using a formula
 - (b) Using grid paper to count squares and find the area of shapes
 - (c) Giving a lecture on the history of measurement
 - (d) Asking students to memorize the formula for the area of a rectangle
11. The coordinates of a rectangle are A(1,1), B(5,1), C(5,4), and D(1,4).



- The perimeter of the rectangle is:
- (a) 14 units
 - (b) 16 units
 - (c) 18 units
 - (d) 20 units
12. A teacher wants to introduce the concept of patterns to Class I students. Which of the following activities is most suitable?
- (a) Asking students to solve pattern problems on paper
 - (b) Using colored beads to create and extend patterns
 - (c) Giving a lecture on the importance of patterns
 - (d) Asking students to memorize pattern sequences
13. The coordinates of a square are A(0,0), B(3,0), C(3,3), and D(0,3). The area of the square is:
- (a) 6 square units
 - (b) 9 square units
 - (c) 12 square units
 - (d) 16 square units

14. A teacher wants to teach the concept of money to Class II students. Which of the following activities is most suitable?
- (a) Asking students to solve money problems on paper
 - (b) Using real coins and notes to simulate a shopping experience
 - (c) Giving a lecture on the history of money
 - (d) Asking students to memorize the value of coins and notes
15. The coordinates of a triangle are A(0,0), B(6,0), and C(3,6). A line parallel to BC intersects AB at (2, y) and AC at (x, 2). The value of y is:
- (a) 1
 - (b) 1.5
 - (c) 2
 - (d) 2.5
16. A teacher wants to assess students' understanding of data handling. Which of the following activities is most appropriate?
- (a) Asking students to create a bar graph using given data
 - (b) Giving a lecture on the importance of data handling
 - (c) Asking students to memorize the steps to create a bar graph
 - (d) Asking students to solve data handling problems on paper
17. The coordinates of a circle are given as center (0,0) and radius 5. The equation of the circle is:
- (a) $x^2 + y^2 = 25$
 - (b) $x^2 + y^2 = 5$
 - (c) $x^2 + y^2 = 10$
 - (d) $x^2 + y^2 = 15$
18. A teacher wants to teach the concept of fractions to Class IV students. Which of the following activities is most suitable?
- (a) Asking students to solve fraction problems on paper
 - (b) Using fraction strips to compare and order fractions
 - (c) Giving a lecture on the history of fractions
 - (d) Asking students to memorize fraction tables

19. The vertices of a triangle are $A(2, 3)$, $B(6, 7)$, and $C(10, 3)$. If a point D lies on BC such that AD is the median of the triangle.



Then the area of triangle ABD is:

- (a) 8 square units
 - (b) 9 square units
 - (c) 10 square units
 - (d) 12 square units
20. A teacher wants to introduce the concept of multiplication to Class III students. Which of the following activities is most suitable?
- (a) Asking students to solve multiplication problems on paper
 - (b) Using repeated addition with objects to explain multiplication
 - (c) Giving a lecture on the history of multiplication
 - (d) Asking students to memorize multiplication tables
21. The coordinates of a triangle are $A(0,0)$, $B(4,0)$, and $C(0,4)$. The area of the triangle is:
- (a) 6 square units
 - (b) 8 square units
 - (c) 10 square units
 - (d) 12 square units
22. A teacher wants to teach the concept of measurement to Class I students. Which of the following activities is most suitable?
- (a) Asking students to measure objects using a ruler
 - (b) Using non-standard units like hand spans to measure objects

- (c) Giving a lecture on the history of measurement
 - (d) Asking students to memorize measurement units
23. The coordinates of a square are A(1,1), B(4,1), C(4,4), and D(1,4). The perimeter of the square is:
- (a) 10 units
 - (b) 12 units
 - (c) 14 units
 - (d) 16 units
24. A teacher wants to assess students' understanding of shapes. Which of the following activities is most appropriate?
- (a) Asking students to draw shapes from memory
 - (b) Providing cut-outs of shapes and asking students to sort them
 - (c) Giving a lecture on the properties of shapes
 - (d) Asking students to memorize the names of shapes
25. The coordinates of a circle are given as center (3,4) and radius 5. The equation of the circle is:
- (a) $(x - 3)^2 + (y - 4)^2 = 25$
 - (b) $(x + 3)^2 + (y + 4)^2 = 25$
 - (c) $(x - 3)^2 + (y - 4)^2 = 5$
 - (d) $(x + 3)^2 + (y + 4)^2 = 5$
26. A teacher wants to teach the concept of division to Class III students. Which of the following activities is most suitable?
- (a) Asking students to solve division problems on paper
 - (b) Using objects to divide into equal groups
 - (c) Giving a lecture on the history of division
 - (d) Asking students to memorize division tables
27. The coordinates of a rectangle are A(0,0), B(5,0), C(5,3), and D(0,3). The perimeter of the rectangle is:
- (a) 12 units
 - (b) 14 units
 - (c) 16 units

- (d) 18 units
28. A teacher wants to introduce the concept of patterns to Class II students. Which of the following activities is most suitable?
- (a) Asking students to solve pattern problems on paper
 - (b) Using colored blocks to create and extend patterns
 - (c) Giving a lecture on the importance of patterns
 - (d) Asking students to memorize pattern sequences
29. The coordinates of a triangle are A(0,0), B(6,0), and C(3,6). The perimeter of the triangle is:
- (a) 12 units
 - (b) 15 units
 - (c) 18 units
 - (d) 21 units
30. A teacher wants to teach the concept of time to Class I students. Which of the following activities is most suitable?
- (a) Asking students to read the time from a digital clock
 - (b) Using a wall clock with movable hands to show different times
 - (c) Giving a lecture on the history of clocks
 - (d) Asking students to memorize the time table