CTET Mathematics Practice Test

Paper I (For Classes I–V)

General Instructions

Practice Test - 30

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!

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1. A teacher wants to introduce the concept of "fractions" to Class III students. Which activity is most effective?

   (a) Using fraction strips to compare and add fractions

   (b) Asking students to solve fraction problems on paper

   (c) Giving a lecture on the history of fractions

   (d) Asking students to memorize fraction tables

2. The coordinates of a triangle are A(0,0), B(9,0), and C(4.5,9). A line parallel to BC intersects AB at (3, y) and AC at (x, 3). The value of x is:

   (a) 1.5
   (b) 2
   (c) 2.5
   (d) 3

3. Which method is best to teach "place value" to Class II students?

   (a) Using an abacus to show tens and ones
   (b) Asking students to write numbers in expanded form
   (c) Giving a lecture on the history of the decimal system
   (d) Asking students to memorize place value charts

4. The coordinates of a rectangle are A(0,0), B(8,0), C(8,3), and D(0,3). The length of the diagonal AC is:

   (a) 8 units
   (b) 9 units
   (c) 10 units
   (d) 11 units

5. To assess understanding of "fractions," which activity is most appropriate?

   (a) Asking students to solve fraction problems on paper
   (b) Using fraction circles to compare and add fractions
   (c) Giving a lecture on the importance of fractions
   (d) Asking students to memorize fraction tables

6. The smallest 4-digit number formed using the digits 1, 0, 5, 9 (each digit used only once) is:

   (a) 0159
   (b) 1059
   (c) 1509
   (d) 1590

7. To teach "symmetry" to Class III students, which activity is most suitable?

(a) Asking students to draw symmetrical shapes

(b) Using paper folding to demonstrate lines of symmetry

(c) Giving a lecture on the types of symmetry

(d) Asking students to memorize symmetrical shapes

8. The equation of a circle with center (4,7) and radius 5 is:

(a) $(x-4)^2+(y-7)^2=25$

(b) $(x+4)^2+(y+7)^2=25$

(c) $(x-4)^2+(y-7)^2=5$

(d) $(x+4)^2+(y+7)^2=5$

9. To teach "measurement of length" to Class I students, which activity is most suitable?

(a) Using a ruler to measure objects

(b) Using non-standard units like hand spans and footsteps

(c) Giving a lecture on the history of measurement

(d) Asking students to memorize standard units of length

10. The coordinates of a triangle are A(0,0), B(7,0), and C(0,7). A line parallel to BC intersects AB at (1, y) and AC at (x, 1). The value of y is:

(a) 0.2

(b) 0.4

(c) 0.6

(d) 0.8

11. To introduce "data handling" to Class II students, which activity is most suitable?

(a) Asking students to create a bar graph using given data

(b) Using real-life examples to collect and organize data in a tally chart

(c) Giving a lecture on the importance of data handling

(d) Asking students to memorize types of graphs

12. The length of the diagonal BD of a square with vertices A(0,0), B(7,0), C(7,7), and D(0,7) is:

(a) $7\sqrt{2}$ units

(b) 9 units

(c) 12 units

(d) 14 units

13. To teach "addition with regrouping" to Class II students, which activity is most suitable?

(a) Using base-10 blocks to demonstrate regrouping

(b) Asking students to solve addition problems on paper

(c) Giving a lecture on the history of addition

(d) Asking students to memorize addition facts

14. The perimeter of a rectangle with vertices A(0,0), B(6,0), C(6,4), and D(0,4) is:

(a) 14 units

(b) 16 units

(c) 18 units

(d) 20 units

15. To assess understanding of "3D shapes," which activity is most appropriate?

(a) Asking students to draw 3D shapes

(b) Providing real-life objects like cubes, spheres, and cylinders for identification

(c) Giving a lecture on the properties of 3D shapes

(d) Asking students to memorize the names of 3D shapes

16. The area of a triangle with vertices A(0,0), B(8,0), and C(4,8) is:

(a) 16 square units

(b) 24 square units

(c) 32 square units

(d) 36 square units

17. To teach "time" to Class II students, which activity is most suitable?

(a) Using a digital clock to show time

(b) Using an analog clock with movable hands to teach hours and minutes

(c) Giving a lecture on the history of clocks

(d) Asking students to memorize the time table

18. The equation of a circle with center (0,0) and radius 8 is:

(a) $x^2 + y^2 = 64$

(b) $x^2 + y^2 = 16$

(c) $x^2 + y^2 = 8$

(d) $x^2 + y^2 = 4$

19. To teach "subtraction with borrowing" to Class III students, which activity is most suitable?

(a) Using base-10 blocks to demonstrate borrowing

(b) Asking students to solve subtraction problems on paper

(c) Giving a lecture on the history of subtraction

(d) Asking students to memorize subtraction facts

20. The area of a rectangle with vertices A(1,1), B(7,1), C(7,4), and D(1,4) is:

(a) 16 square units

(b) 18 square units

(c) 20 square units

(d) 24 square units

21. To introduce "patterns" to Class I students, which activity 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

22. The perimeter of a triangle with vertices A(0,0), B(9,0), and C(4.5,9) is:

(a) 18 units

(b) 22.5 units

(c) 27 units

(d) 30 units

23. To teach "money" to Class II students, which activity is most suitable?

    (a) Using real coins and notes to simulate a shopping experience

    (b) Asking students to solve money problems on paper

    (c) Giving a lecture on the history of money

    (d) Asking students to memorize the value of coins and notes

24. The area of a square with vertices A(1,1), B(6,1), C(6,6), and D(1,6) is:

    (a) 16 square units

    (b) 20 square units

    (c) 25 square units

    (d) 30 square units

25. To assess understanding of "perimeter," which activity is most appropriate?

    (a) Asking students to measure the perimeter of objects using a ruler

    (b) Using grid paper to calculate the perimeter of shapes

    (c) Giving a lecture on the importance of perimeter

    (d) Asking students to memorize the formula for perimeter

26. The equation of a circle with center (5,6) and radius 4 is:

    (a) $(x-5)^2 + (y-6)^2 = 16$

    (b) $(x+5)^2 + (y+6)^2 = 16$

    (c) $(x-5)^2 + (y-6)^2 = 4$

    (d) $(x+5)^2 + (y+6)^2 = 4$

27. To teach "multiplication as repeated addition" to Class III students, which activity is most suitable?

    (a) Using objects to show groups of equal size

    (b) Asking students to solve multiplication problems on paper

    (c) Giving a lecture on the history of multiplication

    (d) Asking students to memorize multiplication tables

28. The perimeter of a rectangle with vertices A(0,0), B(10,0), C(10,2), and D(0,2) is:

    (a) 20 units

    (b) 22 units

    (c) 24 units

    (d) 26 units

29. To introduce "division" to Class IV students, which activity is most suitable?

    (a) Using objects to divide into equal groups

    (b) Asking students to solve division problems on paper

    (c) Giving a lecture on the history of division

    (d) Asking students to memorize division tables

30. The area of a triangle with vertices A(0,0), B(7,0), and C(3.5,7) is:

    (a) 12.25 square units

    (b) 24.5 square units

    (c) 35 square units

    (d) 49 square units

31. To assess understanding of "shapes," which activity 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

32. The perimeter of a square with vertices A(3,3), B(7,3), C(7,7), and D(3,7) is:

    (a) 12 units

    (b) 14 units

    (c) 16 units

    (d) 18 units

33. To teach "subtraction" to Class I students, which activity is most suitable?

(a) Using objects to show the removal of items

(b) Asking students to solve subtraction problems on paper

(c) Giving a lecture on the history of subtraction

(d) Asking students to memorize subtraction facts

34. The perimeter of a rectangle with vertices A(0,0), B(7,0), C(7,1), and D(0,1) is:

(a) 14 units

(b) 16 units

(c) 18 units

(d) 20 units

35. To teach "measurement of capacity" to Class III students, which activity is most suitable?

(a) Using measuring cups to compare volumes of liquids

(b) Asking students to solve capacity problems on paper

(c) Giving a lecture on the history of measurement

(d) Asking students to memorize units of capacity

36. The perimeter of a triangle with vertices A(0,0), B(7,0), and C(0,7) is:

(a) 14 units

(b) 17 units

(c) 21 units

(d) 24 units