

CTET Mathematics Practice Test

Paper I (For Classes I–V)

General Instructions

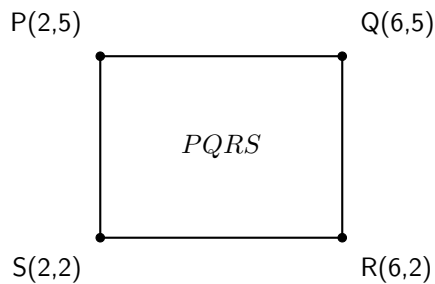
Practice Test - 13

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. Which number is the least common multiple (LCM) of 12, 15, and 20?
 - (a) 60
 - (b) 120
 - (c) 180
 - (d) 30

2. A student calculated the perimeter of a rectangle with length 10 cm and width 5 cm as 50 square cm. This error indicates a confusion between:
- (a) Addition and Subtraction
 - (b) Area and Volume
 - (c) Perimeter and Area
 - (d) Multiplication and Division
3. How many 250 gram packets can be made from $6\frac{1}{2}$ kg of sugar?
- (a) 26
 - (b) 24
 - (c) 30
 - (d) 28
4. The coordinates of the vertices of a quadrilateral $PQRS$ are $P(2, 5)$, $Q(6, 5)$, $R(6, 2)$, and $S(2, 2)$. What is the perimeter of this quadrilateral?



- (a) 12 units
 - (b) 16 units
 - (c) 14 units
 - (d) 18 units
5. Which of the following is the most appropriate method for teaching the concept of **Even and Odd Numbers** to a primary class?
- (a) Asking students to memorize the definition.
 - (b) Giving a list of numbers to classify without explanation.
 - (c) Using physical counters or blocks to see if numbers can be paired exactly.
 - (d) Conducting a formal lecture on divisibility by two.

6. What is the value of 75×99 using the property $75 \times (100 - 1)$?
- (a) 7500
 - (b) 7425
 - (c) 7575
 - (d) 7325
7. If 12 is added to $\frac{2}{3}$ of a number, the result is 20. What is $\frac{1}{4}$ of the original number?
- (a) 4
 - (b) 6
 - (c) 3
 - (d) 8
8. Which of the following numbers, when rounded to the nearest thousand, gives 8,000?
- (a) 7,499
 - (b) 8,501
 - (c) 8,399
 - (d) 7,399
9. The primary goal of incorporating **story problems** or word problems in the primary mathematics curriculum is:
- (a) To test students' reading comprehension skills.
 - (b) To relate mathematical concepts to real-life situations and problem-solving skills.
 - (c) To focus exclusively on complex multi-step calculations.
 - (d) To assess the speed of calculation.
10. The sum of the greatest prime number less than 20 and the greatest composite number less than 10 is:
- (a) 26
 - (b) 27
 - (c) 25
 - (d) 23
11. Simplify: $5 - 0.5 - 0.05 - 0.005$

- (a) 4.445
 - (b) 4.555
 - (c) 4.945
 - (d) 4.495
12. If today is Wednesday, what day of the week will it be 110 days from now?
- (a) Sunday
 - (b) Monday
 - (c) Tuesday
 - (d) Saturday
13. A teacher uses a **pictograph** to represent the favorite colors of students. Which skill is the teacher primarily assessing when asking students to interpret the graph?
- (a) Advanced algebraic manipulation.
 - (b) The ability to collect raw data.
 - (c) Reading and interpreting simple data representation.
 - (d) Calculating averages of large datasets.
14. Which of the following is **not** a property of a cylinder?
- (a) It has two flat, circular faces.
 - (b) It has one curved surface.
 - (c) It has 2 edges.
 - (d) It has a vertex (corner).
15. The total number of edges, faces, and vertices of a cube, when added together, is:
- (a) 18
 - (b) 24
 - (c) 14
 - (d) 20
16. An athlete completes a race in 4 minutes 15 seconds. If the next athlete takes 1.5 times as long, what is the second athlete's time?
- (a) 6 minutes 15 seconds

- (b) 6 minutes 22.5 seconds
 - (c) 6 minutes 30 seconds
 - (d) 6 minutes 17.5 seconds
17. In the number 43.27, the value of the digit '2' is how many times the value of the digit '7'?
- (a) 10 times
 - (b) $\frac{1}{10}$ times
 - (c) 100 times
 - (d) 1000 times
18. When introducing the concept of addition, which pedagogical sequence is generally recommended?
- (a) Symbol $\rightarrow$ Concrete $\rightarrow$ Picture
 - (b) Picture $\rightarrow$ Symbol $\rightarrow$ Concrete
 - (c) Concrete $\rightarrow$ Picture $\rightarrow$ Symbol (Abstract)
 - (d) Symbol $\rightarrow$ Picture $\rightarrow$ Concrete
19. A rectangle has an area of 144 square cm. If its length is four times its width, what is the length of the rectangle?
- (a) 6 cm
 - (b) 12 cm
 - (c) 16 cm
 - (d) 24 cm
20. Which division problem has a remainder of 1?
- (a) $145 \div 5$
 - (b) $136 \div 4$
 - (c) $121 \div 10$
 - (d) $105 \div 7$
21. A teacher observes that a student has difficulty classifying shapes (triangle, square, pentagon) based on their properties. Which resource would be most effective for **remedial teaching** in this area?
- (a) Asking the student to write the names of the shapes 10 times.

- (b) Providing them with pre-cut shapes made of cardboard to physically count sides and vertices.
 - (c) Giving a complex geometry textbook to read.
 - (d) Assigning advanced measurement problems.
22. Find the missing term in the sequence: 1, 4, 9, 16, _____, 36.
- (a) 20
 - (b) 25
 - (c) 30
 - (d) 32
23. A man traveled $\frac{1}{3}$ of his journey by car, $\frac{1}{6}$ by bus, and the remaining 10 km on foot. What is the total length of his journey in km?
- (a) 18 km
 - (b) 20 km
 - (c) 24 km
 - (d) 30 km
24. Which of the following is an example of the **Commutative Property** of addition?
- (a) $(8 + 4) + 2 = 8 + (4 + 2)$
 - (b) $8 + 0 = 8$
 - (c) $8 + 4 = 4 + 8$
 - (d) $8 \times (4 + 2) = 8 \times 4 + 8 \times 2$
25. In a class, promoting a **gender-sensitive approach** in mathematics teaching means:
- (a) Allowing only boys to answer complex questions.
 - (b) Only using examples featuring female characters in math problems.
 - (c) Ensuring both boys and girls are given equal opportunities to participate in discussions and demonstrate skills.
 - (d) Suggesting that mathematics is naturally easier for boys than girls.
26. A tank of capacity 150 liters is initially empty. Water flows into the tank at a rate of 5 liters per minute. After how many minutes will the tank be $\frac{4}{5}$ full?

- (a) 20 minutes
 - (b) 24 minutes
 - (c) 30 minutes
 - (d) 36 minutes
27. What is the smallest 3-digit number that is exactly divisible by 6?
- (a) 100
 - (b) 102
 - (c) 108
 - (d) 114
28. When developing a lesson on perimeter and area, which aspect aligns with the concept of **mathematization** of the child's thinking?
- (a) Encouraging the student to only calculate using formulas.
 - (b) Focusing solely on definitions of the terms.
 - (c) Asking students to estimate the border length and surface of their own desk before measuring.
 - (d) Memorizing the units of measurement.
29. If $\frac{3}{4}$ of a pole is painted blue, and $\frac{1}{3}$ of the remainder is painted yellow, what fraction of the pole is unpainted?
- (a) $\frac{1}{12}$
 - (b) $\frac{1}{4}$
 - (c) $\frac{1}{6}$
 - (d) $\frac{2}{3}$
30. A shop sells pencils in packs of 12 and erasers in packs of 15. A customer wants to buy the minimum number of packs so that the number of pencils equals the number of erasers. How many pencils will the customer buy?
- (a) 30
 - (b) 60
 - (c) 120
 - (d) 90
-