Math Olympiad Practice

GRADE 4 | ORIGINAL MOCK TEST 01

Think carefully. Choose one answer.

35 questions / 60 minutes / 40 marks

Name: _____

Date: _____

Logical Reasoning	1-10	10 x 1 = 10
Mathematical Reasoning	11-20	10 x 1 = 10
Everyday Mathematics	21-30	10 x 1 = 10
Achievers Section	31-35	5 x 2 = 10

Circle A, B, C or D for each question.

Each question has only one correct answer.

There is no negative marking. Do not use a calculator.

For parents: Let your child attempt the paper independently. Start the timer after reading these instructions.

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Logical Reasoning

Questions 1-5 | 1 mark each

1. Three pairs follow the same rule. Which pair does NOT follow it?

A. 4 → 20 B. 6 → 42 C. 8 → 72 D. 9 → 81

2. In a code, PLANT is written as QMBOU. How is BRICK written in the same code?

A. CSHDL B. CSJDL C. CTJDL D. AQHBJ

3. Six children stand in a row. Leela is third from the left. Arun is second from the right. They swap places. How many children are now between Leela and the left end?

A. 3 B. 5 C. 2 D. 4

4. Each row follows the same rule: multiply the first two numbers, then add the second number minus 2. Find the missing number.

4	**7**	**33**
6	**5**	**33**
8	**3**	**?**

A. 25 B. 27 C. 29 D. 31

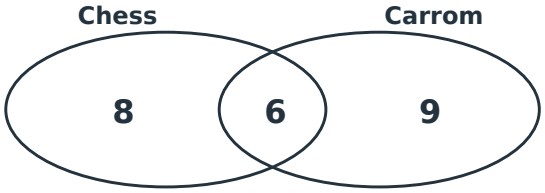
5. A robot faces west. It turns three quarter-turns clockwise, then one half-turn anticlockwise. Which direction does it face?

A. South B. East C. North D. West

Logical Reasoning

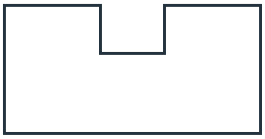
Questions 6-10 | 1 mark each

6. The diagram shows the games children play. How many children play only one of the two games?



A. 14 B. 15 C. 17 D. 23

7. How many lines of symmetry does this outline have?



A. 2 B. 4 C. 1 D. 0

8. Which word can be made from the letters of REFRIGERATOR? Use each letter no more times than it appears.

A. GIRAFFE B. FERRY C. TIGER D. TERRIERS

9. A square sheet is folded in half from left to right, then in half from bottom to top. One hole is punched away from all edges and folds, through all layers. How many holes appear when it is fully opened?

A. 6 B. 2 C. 4 D. 8

10. A walker chooses one path to the lake and then one path to camp. One of the lake-to-camp paths is closed. How many complete routes are still possible?

Route	Start to lake	Lake to camp
Choices	3 paths	4 paths

A. 9 B. 7 C. 6 D. 12

Mathematical Reasoning

Questions 11-15 | 1 mark each

11. What number is 8 ten-thousands + 14 thousands + 6 hundreds + 9 ones?

A. 81,469 B. 94,069 C. 94,609 D. 86,409

12. Which is the correct number name for 5,07,040?

A. Five lakh seventy thousand forty
B. Fifty thousand seven hundred forty
C. Five lakh seven thousand forty
D. Five lakh seven thousand four hundred

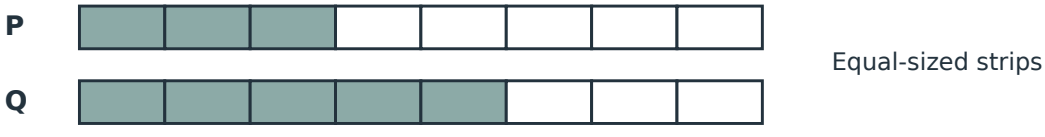
13. Which Roman numeral has the same value as CDXL - LXXV?

A. CCCLV B. CDLXV C. CDXV D. CCCLXV

14. Which number is BOTH a factor of 72 and a multiple of 6?

A. 8 B. 18 C. 42 D. 30

15. What fraction of a whole strip must be moved from Q to P so that both strips have equal shaded lengths?



A. 1/8 B. 3/8 C. 1/4 D. 1/2

Mathematical Reasoning

Questions 16-20 | 1 mark each

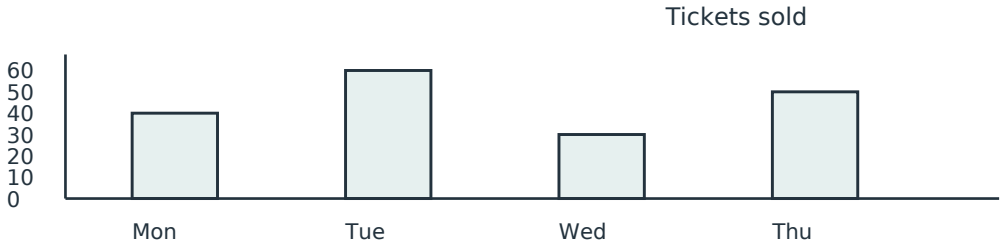
16. Which statement is correct?

A. 3/5 = 5/8 B. 5/6 > 7/8 C. 2 1/4 = 9/4 D. 3/4 < 2/3

17. A number divided by 24 gives quotient 36 and remainder 17. What is the number?

A. 905 B. 847 C. 864 D. 881

18. The graph shows tickets sold. How many more tickets were sold on Tuesday and Thursday together than on Monday and Wednesday together?



A. 70 B. 20 C. 30 D. 40

19. A rectangle is 16 cm long. Its perimeter is 50 cm. What is its width?

A. 34 cm B. 9 cm C. 18 cm D. 25 cm

20. A number machine first subtracts 125, then multiplies by 8. Its output is 4600. What number went into the machine?

A. 700 B. 450 C. 575 D. 825

Everyday Mathematics

Questions 21-25 | 1 mark each

21. A school orders 28 boxes of 24 pencils. It gives 19 pencils to each of 30 children. How many pencils remain?

A. 92 B. 122 C. 112 D. 102

22. Three parcels weigh 2 kg 650 g, 1 kg 875 g and 975 g. What is their total mass?

A. 5 kg 500 g B. 4 kg 500 g C. 6 kg 400 g D. 5 kg 400 g

23. A shopkeeper cuts 2 m 85 cm from a 9 m ribbon. The remaining ribbon is cut into 3 equal pieces. How long is each piece?

A. 3 m 5 cm B. 2 m 15 cm C. 2 m 5 cm D. 2 m 25 cm

24. A jug holds 3 L 600 mL of juice. After 5 cups of 250 mL each are filled, how much juice is left?

A. 1 L 350 mL B. 2 L 350 mL C. 2 L 250 mL D. 2 L 450 mL

25. A film starts at 6:45 p.m. It has two parts of 55 minutes each and a 15-minute interval between them. When does it end?

A. 8:50 p.m. B. 8:35 p.m. C. 8:40 p.m. D. 9:00 p.m.

Everyday Mathematics

Questions 26-30 | 1 mark each

26. The temperature is 18°C at sunrise. It rises by 11°C, then falls by 7°C. How much warmer is it now than at sunrise?

A. 22°C B. 11°C C. 7°C D. 4°C

27. Anu buys 4 notebooks at Rs 38.50 each and a pen for Rs 26. She pays Rs 200. What change should she receive?

A. Rs 46 B. Rs 26 C. Rs 18 D. Rs 20

28. There are 48 children on a trip. Three-eighths bring lunch from home. Each of the others receives one lunch packet. How many packets are needed?

A. 36 B. 24 C. 30 D. 18

29. A library opens on 6 September, a Monday. It opens every day except Sundays. Counting both 6 September and 20 September, on how many days is it open?

A. 13 B. 12 C. 15 D. 14

30. A gardener has 84 red and 126 yellow flowers. Each bouquet must contain 4 red and 6 yellow flowers. What is the greatest number of complete bouquets she can make?

A. 14 B. 28 C. 21 D. 18

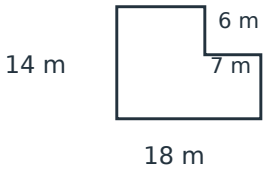
Achievers Section

Questions 31-35 | 2 marks each

31. A tank is 3/4 full. After 18 L of water is used, it is 3/8 full. How many litres are needed to fill it completely from its present level?

A. 30 L B. 18 L C. 24 L D. 48 L

32. A garden has the outline shown. A 4 m opening is left for a gate. Fencing costs Rs 75 per metre. What is the total cost of the fencing?



A rectangular corner is removed.

Diagram is not drawn to scale.

A. Rs 4200 B. Rs 4800 C. Rs 5100 D. Rs 4500

33. Three bells ring every 6, 8 and 12 minutes. They ring together at 9:10 a.m. How many times will ALL THREE ring together AFTER 9:10 a.m. and up to and including 10:30 a.m.?

A. 5 B. 2 C. 3 D. 4

34. There are 120 children in these three clubs. Each child belongs to exactly one club. Art has 6 more boys than girls. How many MORE girls than boys are in Chess?

Club	Girls	Boys
Art	18	?
Chess	?	16
Music	24	20

A. 6 B. 8 C. 2 D. 4

35. A four-digit number has no repeated digits. Its ones digit is the smallest prime. Its hundreds digit is three times its ones digit. Its thousands digit is half its hundreds digit. The sum of all four digits is 18. What is the difference between this number and the number formed by reversing its digits?

A. 1287 B. 1089 C. 909 D. 882