

Class 1 | Mathematics Olympiad

Instructions: Each question has one correct answer. Choose the best option (A/B/C/D). Answer key is provided at the end. This paper is for practice only — not an official exam paper. Recommended time: **45 minutes**.

Q1. Ravi had 35 marbles. He gave 13 to Amit and received 8 from Priya. How many marbles does he have now?

Q2. There are 6 boxes. Each box has 8 oranges. 15 oranges are eaten. How many oranges remain?

Q3. A shopkeeper has 4 packs of 12 pencils and 3 packs of 10 pens. How many items in total?

Q4. $37 + 29 + 41 = ?$

Q5. $100 - 37 - 25 = ?$

Q6. The sum of 3 numbers is 50. Two of them are 21 and 14. What is the third?

Q7. $A + B = 19$ and $A - B = 5$. What is the value of A ?

A. 10

B. 11

C. 12

D. 13

Q8. What is the smallest sum you can make by adding two DIFFERENT single digits?

A. 1

B. 2

C. 3

D. 0

Q9. Find the next term: 2, 6, 12, 20, 30, __

A. 36

B. 38

C. 40

D. 42

Q10. Find the next term: 1, 8, 27, 64, __

A. 100

B. 121

C. 125

D. 144

Q11. Find the next letter: A, C, F, J, O, __ (gaps increase by 1 each time)

A. R

B. S

C. T

D. U

Q12. Find the next term: 100, 91, 83, 76, 70, __

A. 63

B. 65

C. 67

D. 69

Q13. Find the missing term: 3, 5, 8, 13, 21, __

A. 34

B. 31

C. 33

D. 35

Q14. What is the 10th term of the sequence 7, 14, 21, 28, ...?

A. 63

B. 66

C. 70

D. 77

Q15. A rectangle has area 48 sq cm and length 8 cm. What is its perimeter?

A. 24 cm

B. 26 cm

C. 28 cm

D. 32 cm

Q16. A triangle has angles in ratio 1:2:3. What is the LARGEST angle?

A. 60°

B. 75°

C. 80°

D. 90°

Q17. How many squares of ALL sizes are there in a 4×4 grid?

A. 24

B. 30

C. 36

D. 40

Q18. The perimeter of an equilateral triangle is 27 cm. What is the length of each side?

A. 7 cm

B. 9 cm

C. 12 cm

D. 15 cm

Q19. A circle just fits inside a square. The side of the square is 10 cm. What is the diameter of the circle?

A. 5 cm

B. 8 cm

C. 10 cm

D. 12 cm

Q20. A rhombus has all sides of 6 cm. What is its perimeter?

A. 12 cm

B. 18 cm

C. 24 cm

D. 36 cm

Q21. A train travels 120 km in 2 hours. How far will it travel in 5 hours at the same speed?

A. 240 km

B. 250 km

C. 280 km

D. 300 km

Q22. A price doubles every year. An item costs ₹8 now. What did it cost 3 years ago?

A. ₹1

B. ₹2

C. ₹4

D. ₹8

Q23. A clock gains 2 minutes every hour. It shows 12 minutes fast. How many hours has it been running since it was set correctly?

A. 4

B. 5

C. 6

D. 8

Q24. Ram is 6 years older than Sita. In 5 years, Ram's age will equal twice Sita's current age. How old is Sita now?

A. 8

B. 9

C. 10

D. 11

Q25. A basket has apples and oranges in ratio 3:5. If there are 40 fruits in total, how many are apples?

A. 10

B. 12

C. 15

D. 20

Q26. A farmer has chickens and cows. There are 50 heads and 140 legs. How many chickens are there?

A. 20

B. 25

C. 28

D. 30

Q27. A 2-digit number has digits that sum to 9. Its tens digit is twice its units digit. What is the number?

A. 45

B. 54

C. 63

D. 72

Q28. A garden has 3 red, 5 blue, and 4 yellow flowers. 2 red and 1 blue are picked. What fraction of remaining flowers are yellow?

A. $\frac{1}{3}$

B. $\frac{4}{12}$

C. $\frac{1}{4}$

D. $\frac{4}{9}$

Q29. What is the LCM of 6, 8, and 12?

A. 18

B. 24

C. 36

D. 48

Q30. What is the HCF of 24 and 36?

A. 6

B. 8

C. 12

D. 18

Q31. Which of these is a PERFECT NUMBER (equal to the sum of its proper divisors)?

A. 6

B. 12

C. 15

D. 20

Q32. How many factors does the number 36 have?

A. 5

B. 6

C. 8

D. 9

Q33. What is the value of $2^2 + 3^2 + 4^2 - 1^2$?

A. 24

B. 26

C. 28

D. 30

Q34. The smallest number N such that $N/2$, $N/3$, and $N/4$ are all whole numbers is:

A. 8

B. 12

C. 16

D. 24

Q35. In a class of 40, 25 passed Maths and 20 passed Science. 8 passed both. How many passed AT LEAST one?

A. 33

B. 35

C. 37

D. 45

Q36. How many 2-digit PALINDROME numbers exist? (Same digit repeated, e.g. 11, 22...)

A. 8

B. 9

C. 10

D. 11

Q37. What is the sum of all digits from 1 to 9?

A. 36

B. 40

C. 42

D. 45

Q38. What is $1 + 2 + 3 + \dots + 20$?

A. 190

B. 200

C. 210

D. 220

Q39. A rectangle's length is 3 times its width. If the perimeter is 40 cm, what is the area?

A. 60 cm²

B. 72 cm²

C. 75 cm²

D. 80 cm²

Q40. How many 3-digit whole numbers exist in total?

A. 800

B. 850

C. 899

D. 900

Answer Key

Q1: C Q2: B Q3: D Q4: C Q5: A Q6: B Q7: C Q8: A Q9: D Q10: C
Q11: D Q12: B Q13: A Q14: C Q15: C Q16: D Q17: B Q18: B Q19: C
Q20: C Q21: D Q22: A Q23: C Q24: D Q25: C Q26: D Q27: C Q28: D
Q29: B Q30: C Q31: A Q32: D Q33: C Q34: B Q35: C Q36: B Q37: D
Q38: C Q39: C Q40: D