STUDENT COPY · SET A

Class 6 · Mathematics Olympiad

Total questions	Total marks	Time	Negative marking
50	60	60 minutes	None

Name: _____ Class/Section: _____ Roll no: _____

Each question has four options, of which only one is correct. Mark your answer on the answer sheet. The Achievers Section carries higher marks per question. Your teacher has the answers.
This is original practice material written to the Level 1 pattern. It is not a past paper and is not affiliated with SOF or any official olympiad body.

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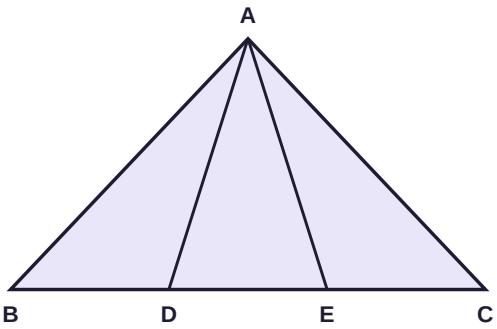
Logical Reasoning

15 questions · 1 mark each · 15 marks

Q1. Three of the following four are alike and form a group. Which one does NOT belong?

(A) Guava (B) Apple (C) Cabbage (D) Banana

Q2. How many triangles are there in the given figure?



(A) 8 (B) 7 (C) 5 (D) 6

Q3. Read the statements and choose the conclusion that MUST be true.
Every student in the class has a pencil. Rahul is a student in the class.

(A) Some students have no pencil. (B) Rahul has a pencil.

(C) Only Rahul has a pencil. (D) Rahul has no pencil.

Q4. If the 10th of a month is a Friday, what day of the week is the 26th of the same month?

(A) Sunday (B) Saturday (C) Tuesday (D) Monday

Q5. In a row of 20 children, Imran is 11th from the left end. What is Imran's position from the right end?

(A) 10th (B) 11th (C) 12th (D) 9th

Q6. All but one of these numbers are multiples of the same number. Find the one that is not: 24, 38, 48, 96, 108

(A) 108 (B) 96 (C) 38 (D) 24

Q7. Which of these figures has exactly 4 lines of symmetry?



(A) (B) (C) (D)

Q8. Sima walks 10 m north, then 3 m east, then 7 m south. Where is Sima now, relative to the starting point?

(A) 3 m north and 4 m east
(B) 4 m north and 3 m east
(C) 10 m north and 3 m east
(D) 3 m north and 3 m east

Q9. Which one does NOT belong with the others?

(A) Silver (B) Gold (C) Iron (D) Wood

Q10. In a queue, Suresh is 9th from the front and 8th from the back. How many people are in the queue altogether?

(A) 16 (B) 15 (C) 18 (D) 17

Q11. Pointing to a boy in a photograph, Meera said, “This boy is not me, but he is the son of my paternal grandfather’s only son.” How is the boy related to Meera?

(A) Cousin (B) Brother (C) Uncle (D) Nephew

Q12. Five friends A, B, C, D and E sit in a row of five seats. A sits at the extreme left end, D sits at the extreme right end, C sits exactly in the middle and B sits between A and C. Who sits in the fourth seat from the left?

(A) D (B) C (C) B (D) E

Q13. In a class, 7 students play cricket, 15 play football and 3 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 22 (B) 20 (C) 16 (D) 19

Q14. A father is 31 years older than his son. The son is 5 years old now. How old will the father be after 5 years?

(A) 36 years (B) 46 years (C) 41 years (D) 42 years

Q15. Which letter comes next? E, G, J, N, ___

(A) Q (B) R (C) S (D) T

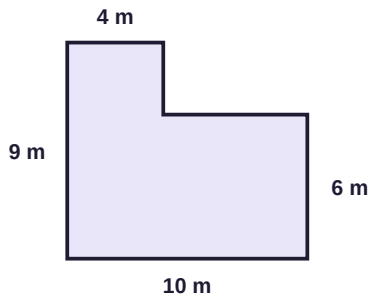
Mathematical Reasoning

20 questions · 1 mark each · 20 marks

Q16. Find the next number: 2, 6, 12, 20, 30, ___

(A) 40 (B) 42 (C) 48 (D) 44

Q17. The figure shows a plot of land. What is its area?



(A) 90 sq m (B) 72 sq m (C) 75 sq m (D) 66 sq m

Q18. 4/6 + 1/10 = ?

(A) 1 4/15 (B) 23/30 (C) 13/15 (D) 3/5

Q19. The perimeter of a square is 48 cm. What is its area?

(A) 169 sq cm (B) 144 sq cm (C) 156 sq cm (D) 48 sq cm

Q20. What is the smallest number that can be divided exactly by both 12 and 10?

(A) 48 (B) 30 (C) 70 (D) 60

Q21. Round 33,519 to the nearest thousand.

(A) 34,000 (B) 33,000 (C) 35,000 (D) 33,500

Q22. Which of these fractions is the greatest?

(A) 5/8 (B) 4/7 (C) 3/5 (D) 3/4

Q23. 7.0 km = _____ m

(A) 70 (B) 70,000 (C) 7,000 (D) 700

Q24. 466 × 30 = ?

(A) 13,980 (B) 14,446 (C) 13,950 (D) 14,080

Q25. 6 L 150 mL × 3 = ?

(A) 18 L 550 mL (B) 18 L 350 mL (C) 18 L 450 mL (D) 19 L 450 mL

Q26. What is the place value of 3 in the number 74,82,351?

(A) 300 (B) 3,000 (C) 3 (D) 30

Q27. At 6 a.m. the temperature was 18°C. By noon it had risen by 11°C, and by night it had fallen by 9°C. What was the temperature at night?

(A) 22°C (B) 20°C (C) 29°C (D) 18°C

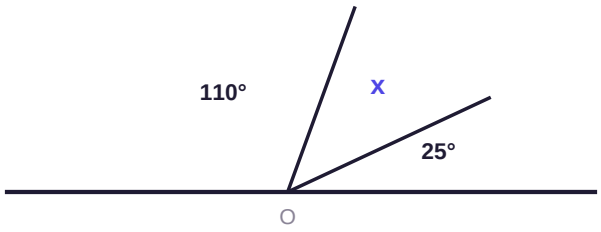
Q28. 4,28,206 - 3,32,681 = ?

(A) 95,625 (B) 96,525 (C) 95,525 (D) 95,515

Q29. 9 kg 450 g - 4 kg 720 g = ?

(A) 4 kg 830 g (B) 5 kg 730 g (C) 4 kg 730 g (D) 4 kg 670 g

Q30. In the given figure, find the value of x.



(A) 70° (B) 45° (C) 55° (D) 35°

Q31. 61 - 36.03 = ?

(A) 25.97 (B) 24.87 (C) 24.97 (D) 25.07

Q32. 2,064 ÷ 8 = ?

(A) 259 (B) 258 (C) 248 (D) 268

Q33. 1/2 + 6/12 = ?

(A) 1 1/12 (B) 1 (C) 1/2 (D) 1 1/2

Q34. The perimeter of a square is 32 cm. What is its area?

(A) 72 sq cm (B) 81 sq cm (C) 32 sq cm (D) 64 sq cm

Q35. What is the smallest number that can be divided exactly by both 8 and 6?

(A) 12 (B) 24 (C) 8 (D) 48

Everyday Mathematics

10 questions · 1 mark each · 10 marks

Q36. A wall is 6 m long and 4 m high. How many square tiles of side 20 cm are needed to cover it completely?

(A) 300 (B) 1200 (C) 600 (D) 612

Q37. A water tank holds 240 litres. If 1/8 of the water is used, how much water is left?

(A) 210 L (B) 235 L (C) 30 L (D) 185 L

Q38. A rope 3.2 m long is cut into pieces each 40 cm long. How many complete pieces are obtained?

(A) 8 (B) 6 (C) 10 (D) 13

Q39. A train leaves at 9:25 a.m. and reaches its destination at 3:02 p.m. on the same day. How long is the journey?

(A) 5 h 47 min (B) 4 h 37 min (C) 6 h 37 min (D) 5 h 37 min

Q40. An auto charges ₹ 25 for the first kilometre and ₹ 14 for every kilometre after that. What is the fare for a journey of 9 km?

(A) ₹ 123 (B) ₹ 138 (C) ₹ 137 (D) ₹ 151

Q41. In a class of 16 students, 3/4 are girls. How many boys are there?

(A) 9 (B) 12 (C) 4 (D) -1

Q42. One dozen pens cost ₹ 48. What is the cost of 9 pens?

(A) ₹ 40 (B) ₹ 32 (C) ₹ 44 (D) ₹ 36

Q43. A shopkeeper sells 7 kg of rice at ₹ 69 per kg. How much money does he receive?

(A) ₹ 490 (B) ₹ 383 (C) ₹ 483 (D) ₹ 583

Q44. A book has 167 pages. Ritu reads 38 pages every day for 4 days. How many pages are still left?

(A) 152 (B) 20 (C) 10 (D) 15

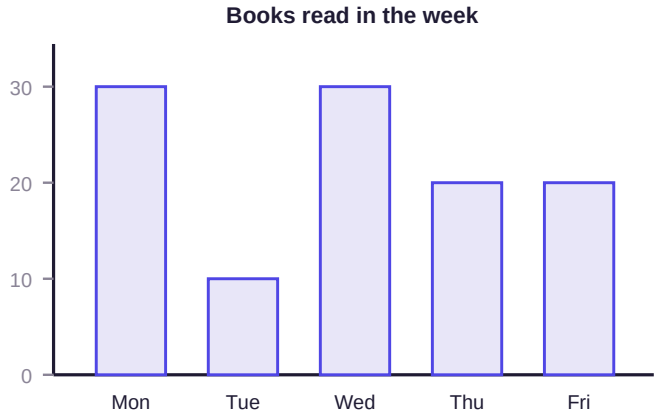
Q45. A wall is 7 m long and 4 m high. How many square tiles of side 25 cm are needed to cover it completely?

(A) 224 (B) 460 (C) 448 (D) 896

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. The bar graph shows the number of books read by a class on each day of one week. How many books were read in the whole week?



(A) 120 (B) 110 (C) 115 (D) 105

Q47. Using each of the digits 8, 0, 3, 1 exactly once, what is the smallest 4-digit number that can be formed?

(A) 8310 (B) 1047 (C) 0138 (D) 1038

Q48. If FISH is coded as ILVK, how is WIND coded?

(A) TFKA (B) COTJ (C) ZLQG (D) GQLZ

Q49. How many numbers greater than 40 and less than 65 leave a remainder of 2 when divided by 7?

(A) 5 (B) 4 (C) 2 (D) 3

Q50. Find the next number: 4, 6, 10, 16, 24, ___

(A) 35 (B) 32 (C) 36 (D) 34

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