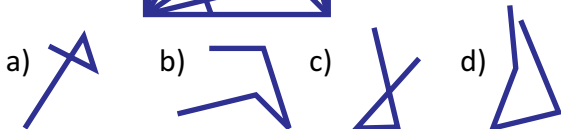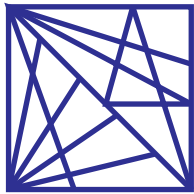**MathsOne Olympiad**

Sample Question Paper

General Instructions

1. All questions are compulsory.
2. The question paper consists of 35 questions divided into four sections - A, B C and D.
3. Section A comprises of **10 Logical Reasoning** questions of **one mark** each.
   Section B comprises of **10 Mathematical Reasoning** questions of **one mark** each
   Section C comprises of **10 Everyday Math questions** of **one mark** each
   Section D (Achievers Section) comprises of **5 HOTS questions** of **two marks** each.
4. All questions are Multiple Choice Question type.
5. Each question has four options marked (a), (b), (c) and (d). You have to choose the correct or most appropriate answer by bubbling the OMR Sheet.
6. The duration of the test is **60 minutes.**
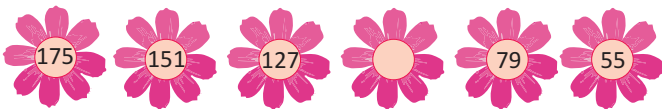
SECTION A : LOGICAL REASONING

1. One of the option figures is a part of the problem figure given below. Find the one which is a part of it?

a)   b)   c)   d)

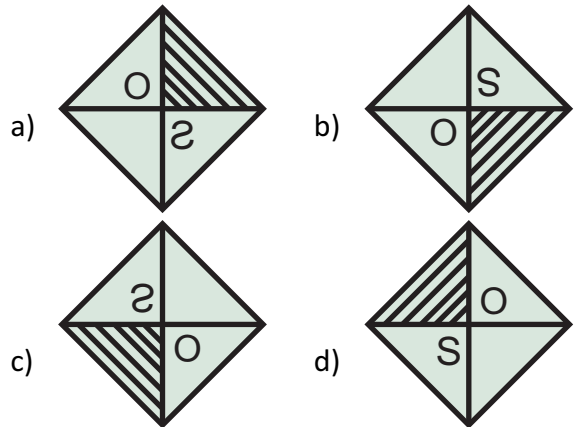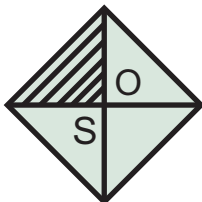2. Mithun is standing   5th from left in a row of 15 members. What is his position from right?

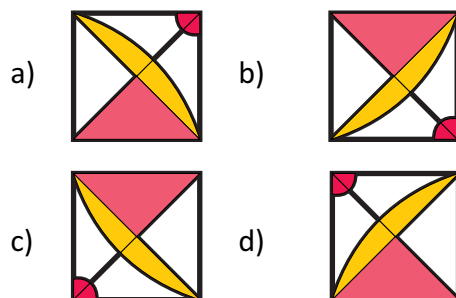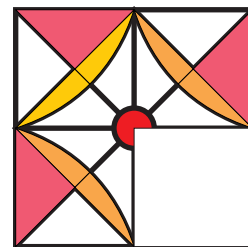   a) 10th   b) 11th   c) 9th   d) 13th

3. Find the next number.

175   151   127   79   55

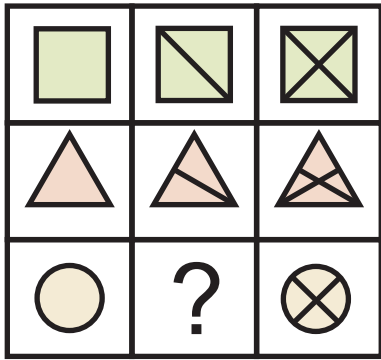   a) 102   b) 111   c) 103   d) 114

4. Find the mirror image of the figure given below, if the mirror is placed vertically to the right.

a)

b)

c)

d)

5. Which of the following option will complete the given figure?

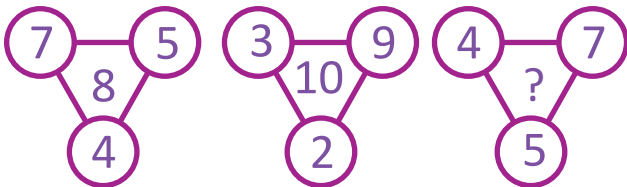

a)   b)

c)   d)

6. Which of the following figure will replace the question mark?

a)   b)   c)   d)

7. Find the number in place of question mark.

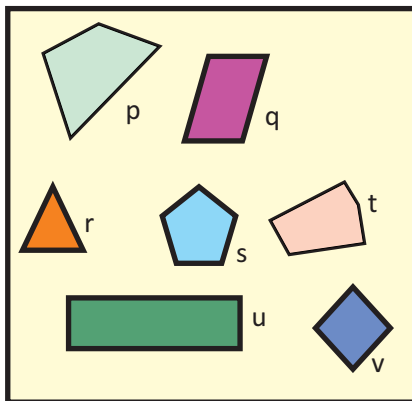a) 5   b) 4   c) 6   d) 7

8. Find the next element in the series.

AbCd, eFgH, IjKl, mNoP, ...

a) qrst   b) QrSt   c) qRsT   d) QRST

9. Which of the figures form a group?

a) p, q, u, v   b) p, q, r, t
c) p, q, t, u, v   d) p, u, t, v

10. If Xavier ranks 5th from top in merit and 37th from bottom. What is the total number of students in the class?

a) 42   b) 45   c) 40   d) 41

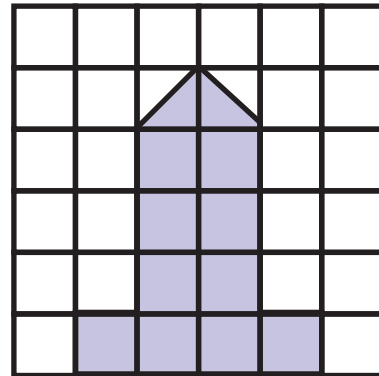## SECTION B : MATHEMATICAL REASONING

11. There were 120 chocolates which totally costs Rs. 840. How will you find the cost of one chocolate?

a) 840 + 120   b) 840 - 120
c) 840 120   d) 840 120

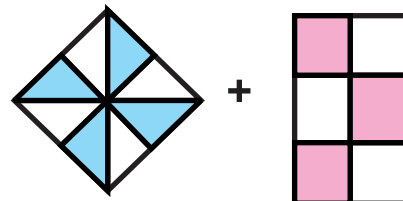12. Find the greatest common factor of 64, 32 & 40

a) 32   b) 16   c) 8   d) 64

13. What is the area of the given figure? (The area of each square grid is 1 cm square).

a) 11 square units   b) 10 square units
c) 12 square units   d) 13 square units
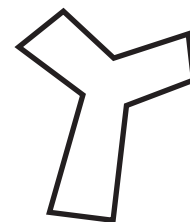
14. What is the fraction of the shaded portion?

a) $\dfrac{4}{8}+\dfrac{3}{6}$ b) $\dfrac{4}{4}+\dfrac{3}{6}$

c) $\dfrac{1}{2}+\dfrac{1}{2}$ d) Both a and c

15. What is the Hindu - Arabic equivalent of the Roman numeral LXXVIII ?

a) 78   b) 68   c) 38   d) 45

16. How many line segments are there in the given figure?

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

17. In a clock, if the minute hand is at the second point between 7 and 8, how many minutes have passed?

    a) 30   b) 32   c) 33   d) 37

18. What is the least common multiple of 15 and 45?

    a) 15   b) 25   c) 45   d) 35

19. Which symbol will you use for the given box?

13475 ☐ 14375

    a) >   b) <   c) =   d) +

20. Study the pictograph and answer the question

Shinu's Mom	🍪🍪
Jithu's Mom	🍪🍪🍪🍪🍪
Daya's Mom	🍪🍪🍪🍪
Jeni's Mom	🍪🍪🍪
Shahul's Mom	🍪🍪🍪

🍪 equals 5 cookies
🍪 equals 2 cookies

What is the number of cookies made by Jithu's Mom?

    a) 19   b) 18   c) 17   d) 16

SECTION C : EVERYDAY MATHEMATICS

21. Shreya went for music class at 4:45 pm. The duration of the class is 1 hour 30 minutes. At what time will she come back?

    a) 5:15 pm   b) 6:15 am
    c) 6:15 pm   d) 6:45 pm

22. Anushka takes 10 ml of date syrup every day. How much quantity of date syrup will she drink in 4 weeks?

    a) 40 ml   b) 300 ml
    c) 210 ml   d) 280 ml

23. In a school there were 55 rooms. Each room had 2 fans. How many fans were there in total?

    a) 100   b) 105
    c) 110   d) 210

24. Ben had to paint a rectangle whose length is 6 m and breadth is 4 m. What is the area of the rectangle?

    a) 23 square metre   b) 24 square metre
    c) 24 metre   d) 25 metre

25. Fathima is finding difficulty in skip counting by 6. Can you help her find the next 3 numbers?

48 54 60 66 ◆ ◆ ◆

    a) 71, 77, 84   b) 72, 76, 86
    c) 72, 78, 84   d) 73, 36, 84

26. Remi has 5 pink roses, 7 red roses and 4 yellow roses in her garden. What is the fraction of yellow roses in the garden?

    a) $\dfrac{1}{4}$ b) $\dfrac{5}{16}$ c) $\dfrac{7}{16}$ d) $\dfrac{1}{16}$

27. Keitty is ready to bake a cake. She has 325 g of flour, 75 g of sugar and 100 g of eggs. What is total the weight of the items used to bake a cake?

    a) 400 g   b) 500 g
    c) 450 g   d) 575 g
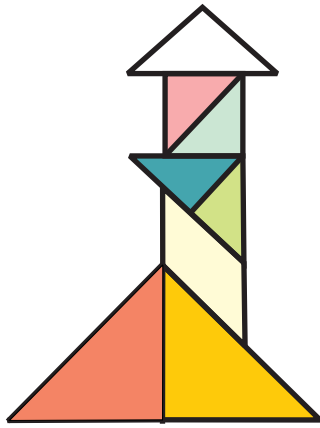
28. Stella bought a box of chocolates for Rs. 133.50 and sold it for Rs. 150. What is the profit she earned?

    a) Rs. 16.50   b) Rs. 14.50
    c) Rs. 13.50   d) Rs. 17.50

29. Govind is finding difficulty in doing his homework. He has to write forty lakh thirty thousand five hundred and seven in words. Can you help him?

    a) 403507   b) 4030507
    c) 430507   d) 4050307

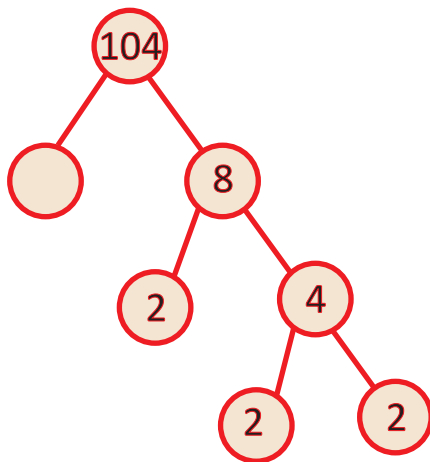30. Rishav has a toy . Help him count the number of triangles in it.

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

SECTION D : ACHIEVER'S SECTION

31. Rithesh got Rs. 275 from his Grandpa. He already had Rs.250.75 with him. If he spents Rs. 335.25 on a bag, how much money will he have in his hand?
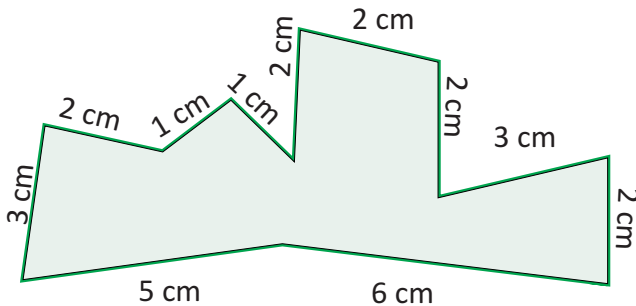
     a) Rs. 150.50   b) Rs. 140.50

     c) Rs. 190.50   d) Rs. 190.25

32. Find the missing number in the factor tree.

a) 12   b) 15   c) 14   d) 13

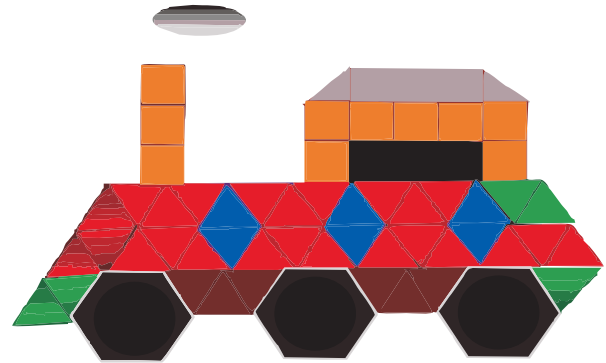33. Find the perimeter of the given image.

a) 29 cm   b) 30 cm   c) 28 cm   d) 27 cm

34. John started from his home to his friend's home. He moved 100 m from his home and turned left and walked 514 m. Then he reached a bus stop. He boarded a bus and traveled 2 km 500 m. What is the distance he covered in total?

     a) 3 km 104 m   b) 2 km 14 m

     c) 3 km 114m   d) 2 km 114 m

35. Count the number of triangles in the given figure.

a) 42   b) 43   c) 44   d) 45

ANSWERS

1. b)	2. b)	3. c)	4. a)
5. d)	6. b)	7. c)	8. b)
9. a)	10. d)	11. d)	12. c)
13. a)	14. d)	15. a)	16. b)
17. d)	18. c)	19. b)	20. a)
21. c)	22. d)	23. c)	24. b)
25. c)	26. a)	27. b)	28. a)
29. b)	30. d)	31. c)	32. d)
33. a)	34. c)	35. b)	