

# CBSE Class 8 Maths Sample Paper SA1 Set 1

**SUBJECT: MATHEMATICS**  
**CLASS : VIII**

**MAX. MARKS : 60**  
**DURATION : 2½ HRS**

**General Instructions:**

1. All questions are compulsory.
2. Question paper is divided into four sections: Section A consists 8 questions each carry 1 marks, Sections B consists 6 questions each carry 2 marks, Sections C consists 8 questions each carry 3 marks and Sections D consists 4 questions each carry 4 marks

**SECTION – A**

1. Write the additive inverse of  $\frac{4}{-5}$ .

2. Solve:  $7x - 9 = 16$ .

3. State the name of a regular polygon of 7 sides.

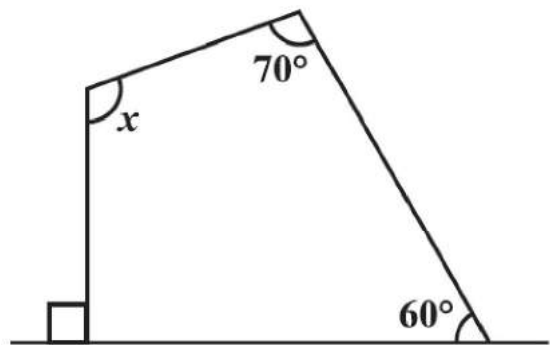
4. Find  $x$  in the adjoining figure:

5. Find the square of the number 42.

6. A table marked at Rs 15,000 is available for Rs 14,400. Find the discount percent.

7. A football team won 10 matches out of the total number of matches they played. If their win percentage was 40, then how many matches did they play in all?

8. A bag has 2 red balls and 4 yellow balls. (The balls are identical in all respects other than colour). A ball is drawn from the bag without looking into the bag. What is probability of getting a red ball?



**SECTION – B**

9. Find two rational numbers between  $\frac{-3}{2}$  and  $\frac{5}{3}$ .

10. How many sides does a regular polygon have if the measure of an exterior angle is  $24^\circ$ ?

11. Find the cube root of 10648 by prime factorisation method.

12. A man got a 10% increase in his salary. If his new salary is Rs 1,54,000, find his original salary.

13. Find the smallest square number that is divisible by each of the numbers 8, 15 and 20.

14. The following marks (out of 50) obtained in Mathematics by 60 students of Class VIII:

21, 10, 30, 22, 33, 5, 37, 12, 25, 42, 15, 39, 26, 32, 18, 27, 28, 19, 29, 35, 31, 24, 36, 18, 20, 38, 22, 44, 16, 24, 10, 27, 39, 28, 49, 29, 32, 23, 31, 21, 34, 22, 23, 36, 24, 36, 33, 47, 48, 50, 39, 20, 7, 16, 36, 45, 47, 30, 22, 17.

Using tally marks make a frequency table with intervals as 0–10, 20–30 and so on.

### SECTION – C

15. Represent these numbers on the number line: (i)  $\frac{5}{6}$  (ii)  $-\frac{7}{4}$  (iii)  $\frac{2}{7}$

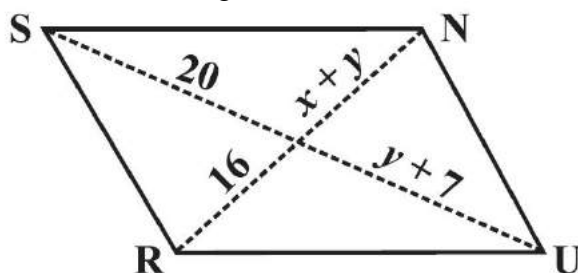
16. Construct a quadrilateral JUMP where JU = 3.5 cm, UM = 4 cm, MP = 5 cm, PJ = 4.5 cm and PU = 6.5 cm

17. Find CI on Rs 12600 for 2 years at 10% per annum compounded annually.

18. Solve:  $\frac{7y+4}{y+2} = \frac{-4}{3}$

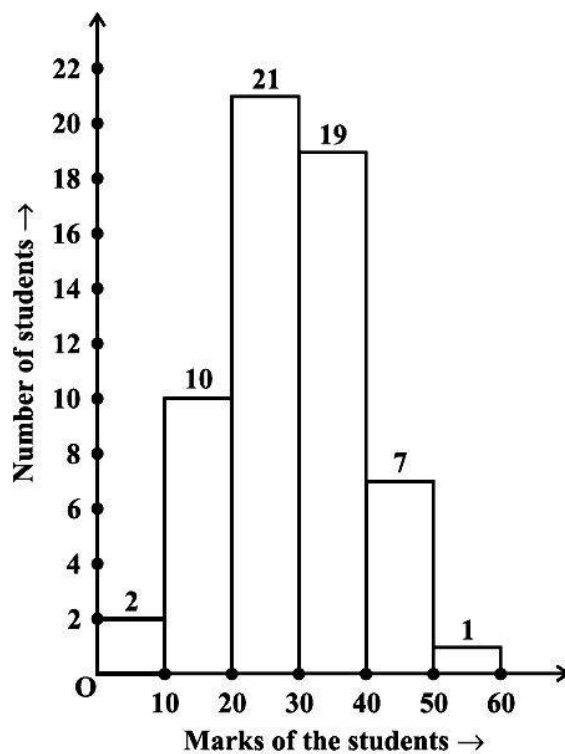
19. Find the smallest number by which 704 must be divided to obtain a perfect cube.

20. In a parallelogram RUNS, (see below Figure), find the values of x and y.



21. Observe the histogram (see below Figure) and answer the questions given below.

- (i) What information is being given by the histogram?
- (ii) Which group contains maximum students and minimum students?
- (iii) How many students have score 20 marks and more?



22. A gardener has 1000 plants. He wants to plant these in such a way that the number of rows and the number of columns remain same. Find the minimum number of plants he needs more for this.

### SECTION – D

23. One of the two digits of a two digit number is three times the other digit. If you interchange the digits of this two-digit number and add the resulting number to the original number, you get 88. What is the original number?
24. Construct a quadrilateral TRUE where  $TR = 3.5$  cm,  $RU = 3$  cm,  $UE = 4$  cm,  $\angle R = 75^\circ$  and  $\angle U = 120^\circ$
25. Find the population of a city after 2 years, which is at present 12 lakhs, if the rate of increase is 4%. Write any two effects of high populations?
26. On a particular day, the sales (in rupees) of different items of a baker's shop are given below.

Ordinary bread	320
Fruit bread	80
Cakes and pastries	160
Biscuits	120
Others	40
<b>Total</b>	<b>720</b>

Draw a pie chart for this data.

