Math's Assignment
Class 8th

1. Verify the distributivity of multiplication of rational numbers over addition i.e. $X \times (Y + Z) = X \times Y + X \times Z$ by taking $x = \frac{-3}{5}$ y = $\frac{2}{3}$ z= $\frac{-2}{7}$

2. Represent on no. line   (i) $\frac{11}{3}$ (ii) $\frac{-11}{3}$

3. Insert six rational numbers between $\frac{-10}{17}$ and $\frac{-11}{17}$

4. Solve x+7=15

5. Solve
   (i)   3x=27   (ii)   x-15=22

6. Solve

   (i) $\frac{x}{4} + \frac{1}{2} = 4$ (ii)   2x+28=9x-56

7. Find four consecutive number whose sum is 74.

8.   Divide the share 64 between Seeta and Geeta such that 3 times Seeta's share is greater than 4 times Geeta's share by 10.

9.   Compare $\frac{9}{-11}$ and $\frac{5}{-17}$

10.   Arrange $\frac{-4}{5}, \frac{9}{-15}, \frac{-2}{3}$ in descending order

11.   Solve $\frac{x-3}{5} + \frac{x-4}{7} = 6 - \frac{2x-1}{35}$

12.   Solve $\frac{3x+2}{4x+11} = \frac{4}{7}$

13      $\frac{m-3}{m+4} = \frac{x-3}{5}$

14.   The width of sudha's garden is $\frac{2}{3}$ of its length. If its perimeter is 40 m. find its dimensions.

15.   The ages of Ravi and Hema are in the ratio 5:7. Four years later, their ages will be in the ratio 3:4. Find their ages.

16.   If three angles of a quadrilateral are 50°, 70° and 120°. Find the fourth angles of quadrilateral.

17.   Four angles of a quadrilateral are in the ratio 3:5:7:9 find the angles.

18.   Two adjacent sides of a parallelogram are 3 cm and 4 cm respectively. Find the perimeter of the parallelogram.

19.   The long side of parallelogram is 8 cm. if the shorter side is $\frac{3}{4}$ of the longer side, then find the perimeter of parallelogram.

20.   Two adjacent angles of parallelogram are in the ratio 4:5. Find the measure of all the angles.

21. In a parallelogram ABCD, if $LA = 45°$, then find the other angles.

22. The ratio of sides of a parallelogram is as 3:5 and the perimeter is 48 cm. find the sides of parallelogram.

23. The angles of a quadrilateral are 2x+3°, x+7°, 3x-5° and 2x+11°. Find the measure of each angle of quadrilateral.

24. Two angles of a quadrilateral are 55° and 175° and the other two angles are equal. What is the measure of each angle?

25. Construct a quadrilateral when AB=5.5 cm, BC=4.4 cm, AD=3.3 cm, CD=4.6 cm and BD=6.6cm

26. Construct a quadrilateral PQRS such that PQ=PS=4 cm, QR and QS are equal to 5 cm and SR=6.2 cm

27. Construct a quadrilateral PQRS in which $LP = 120°$, $LQ = 80°$, $LR = 70°$ and PQ=RS=5.2cm.

28. Construct a quadrilateral ABCD in which AB=4.5 cm, BC=3.2 cm, $LA = 60°$, $LB = 105°$ and

    LD90°

29. Construct a rhombus with side 4.5 cm and one of its diagonals is 7.2 cm.

30. Construct a rectangle ABCD in which side BC= 5.5 cm and diagonal BD=6.5 cm