

Dr. M.K.K. ARYA MODEL SCHOOL, PANIPAT

MATHS ASSIGNMENT

CLASS – VII

CH – 9 (RATIONAL NUMBERS)

1. Express  $-\frac{8}{9}$  as a rational number with numerator = 40.
2. Write  $-\frac{444}{492}$  in its standard form.
3. Compare:  $-\frac{3}{-14}$  and  $-\frac{5}{21}$
4. Arrange the rational numbers in ascending order:  $-\frac{3}{7}, \frac{5}{-14}, -\frac{7}{12}$
5. Fill in the blanks:  $-\frac{3}{4} = \frac{\dots}{12} = \frac{\dots}{28}$
6. Subtract  $\frac{7}{8}$  from  $\frac{5}{12}$
7. What should be added to  $-\frac{7}{12}$  so as to get  $\frac{9}{16}$ ?
8. Simplify:  $\frac{-13}{9} + \frac{7}{9} + \frac{2}{-9}$
9. Multiply:  $\frac{-8}{19}$  by  $(-57)$
10. Find the reciprocal of  $-7$
11. Find the reciprocal of  $\frac{5}{8} \times \frac{(-3)}{10}$
12. Divide  $\frac{15}{38}$  by  $\frac{-3}{19}$
13. List three numbers between  $-3$  and  $-2$
14. Simplify:  $\left(\frac{26}{9} \times \frac{3}{7}\right) - \left(\frac{13}{14} \times \frac{-2}{3}\right)$
15. List 10 rational numbers between  $\frac{-3}{11}$  and  $\frac{8}{11}$ .
16. The cost of  $5\frac{1}{3}$  m of cloth is ₹  $85\frac{1}{3}$ . Find the cost of cloth per meter.
17. Find the reciprocal of  $\left(\frac{3}{11} \times \frac{5}{6}\right) - \left(\frac{9}{22} \div \frac{3}{4}\right)$ .

CH – 10 (PRACTICAL GEOMETRY)

1. Construct a triangle  $\triangle ABC$  in which  $AB = 7$  cm,  $AC = 6$  cm,  $BC = 9$  cm.
2. Construct a triangle  $\triangle XYZ$  in which  $\angle XYZ = 70^\circ$ ,  $XY = 7.2$  cm,  $YZ = 8.2$  cm.
3. Construct a triangle  $\triangle BCD$  in which  $\angle B = 105^\circ$ ,  $BC = 8.2$  cm,  $\angle C = 45^\circ$ .
4. Construct a right triangle  $\triangle LMN$  right angled at  $N$  in which  $MN = 5.9$  cm and  $LM$  cm.
5. Construct a triangle  $\triangle ABC$  given  $AB = 7$  cm,  $\angle A = 35^\circ$ ,  $\angle B = 40^\circ$ . Calculate the third angle.