Question paper

Class: VII   **MM 30 Marks**

1. **Choose the correct answer.**   **(5 × 1 = 5)**

   a. The additive inverse of 8 is
      i.   8   ii.   0   iii.   -8   iv.   1
   b. The sum of 0 and -5 is always
      i.   0   ii.   -5   iii.   5   iv.   1
   c. The product of -6 and -9 is
      i.   54   ii.   45   iii.   -54   iv.   -15
   d. When -24 is divided by -6, the quotient is
      i.   -6   ii.   6   iii.   -4   iv.   4
   e. Mixed fraction for improper fraction $\frac{31}{5}$ is

      i. $1\frac{1}{5}$ ii. $6\frac{1}{5}$ iii. $5\frac{1}{5}$ iv. $5\frac{6}{5}$

2. **Fill in the blanks.**   **(5 × 1 = 5)**

   a. The reciprocal of 7 is ……………………
   b. The sum of $\frac{3}{7}$ and $\frac{4}{7}$ is ………………………
   c. (-8) × 45 = 45 × ………………
   d. 24 + (-11 + 15) = (24 + …………..) + 15
   e. $\frac{10}{11} \times \frac{22}{5}$ = ………………....

3. **Solve the following.**   **(5 × 1 = 5)**

a. 25 + (-12) + (-8) + 15
b. 5 × (-8) × 10 × (-40)
c. $\frac{3}{16} + \frac{5}{16} + \frac{7}{16}$
d. $\frac{7}{9} - \frac{2}{9}$

e. $\dfrac{5}{7} \times \dfrac{14}{15} \times \dfrac{9}{16}$

4. Do as directed.   **(3 × 2 = 6)**

    a. Multiply using properties of multiplication:

       105 × 101

    b. Divide:

       $\dfrac{2}{9} \div \dfrac{8}{27}$

    c. Multiply:

       $\dfrac{45}{50} \times \dfrac{5}{9} \times \dfrac{10}{25}$

5. Solve the following word problems.   **(3 × 3 = 9)**

    a. An ant climbs on a pole 8 m in first hour and slips down by 2 m in the nest hour. Again, it climbs 12 m in third hour and slips down by 3 m in the fourth hour. If the height of the pole is 20 m, how much distance is still to be covered by the ant to reach the top of the pole?

    b. Neha has a chocolate bar. She ate $\dfrac{1}{2}$ of the chocolate bar and her sister ate $\dfrac{1}{8}$ of the remaining chocolate bar. What fraction of the chocolate bar is left with her?

    c. If $2\dfrac{1}{2}$ kg of iron costs ₹ $80\dfrac{1}{2}$, how much does 1 kg of iron cost?