Fractions Ex 6.8 Q1

## Answer :

(i) The given fractions are $\frac{1}{5}$ & $\frac{2}{5}$

$$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$$

$$\frac{1+2}{5} = \frac{3}{5}$$

$$\frac{3}{5} = \frac{3}{5}$$

(ii) The given fractions are $\frac{3}{6}$ & $\frac{2}{6}$

$$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

$$\frac{3+2}{6} = \frac{5}{6}$$

$$\frac{5}{6} = \frac{5}{6}$$

Fractions Ex 6.8 Q2

### Answer:

(i) $\frac{5}{12} + \frac{1}{12} = \frac{5+1}{12}$

$= \frac{6 \div 6}{12 \div 6} = \frac{1}{2}$ $\left(\text{Dividing numerator \& denominator by their HCF}\right)$

(ii) $\frac{3}{15} + \frac{7}{15} = \frac{3+7}{15}$

$= \frac{10 \div 5}{15 \div 5} = \frac{2}{3}$ $\left(\text{Dividing numerator \& denominator by their HCF}\right)$

(iii) $\frac{3}{22} + \frac{7}{22} = \frac{3+7}{22}$

$= \frac{10 \div 2}{22 \div 2} = \frac{5}{11}$ $\left(\text{Dividing numerator \& denominator by their HCF}\right)$

(iv) $\frac{1}{4} + \frac{0}{4} = \frac{1+0}{4} = \frac{1}{4}$

(v) $\frac{4}{13} + \frac{2}{13} + \frac{1}{13} = \frac{4+2+1}{13} = \frac{7}{13}$

(vi) $\frac{0}{15} + \frac{2}{15} + \frac{1}{15} = \frac{0+2+1}{15}$

$= \frac{3 \div 3}{15 \div 3} = \frac{1}{5}$ $\left(\text{Dividing numerator \& denominator by their HCF}\right)$

(vii) $\frac{7}{31} - \frac{4}{31} + \frac{9}{31} = \frac{7-4+9}{31} = \frac{12}{31}$

(viii) $3\frac{2}{7} + \frac{1}{7} - 2\frac{3}{7} = \frac{23}{7} + \frac{1}{7} - \frac{17}{7} = \frac{23+1-17}{7} = \frac{7}{7} = 1$

(ix) $2\frac{1}{3} - 1\frac{2}{3} + 4\frac{1}{3} = \frac{7}{3} - \frac{5}{3} + \frac{13}{3}$

$\qquad = \frac{7-5+13}{3} = \frac{15 \div 3}{3 \div 3} = 5 \qquad \left(\text{Dividing numerator \& denominator by their HCF}\right)$

(x) $1 - \frac{2}{3} + \frac{7}{3} = \frac{3-2+7}{3} = \frac{8}{3}$

(xi) $\frac{16}{7} - \frac{5}{7} + \frac{9}{7} = \frac{16-5+9}{7} = \frac{20}{7}$

Fractions Ex 6.8 Q3

**Answer :**

Shikha painted $\frac{1}{5}$ of the wall space.

Ravish painted $\frac{3}{5}$ of the wall space.

Wall space painted by both of them together $= \frac{1}{5} + \frac{3}{5} = \frac{1+3}{5} = \frac{4}{5}$

Unpainted part of the room $= 1 - \frac{4}{5} = \frac{5-4}{5} = \frac{1}{5}$

*********** END *********