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) $\frac{5}{12}+\frac{1}{12}=\frac{5+1}{12}$
$=\frac{6\div 6}{12\div 6}=\frac{1}{2}$ (Dividing numerator & denominator by their HCF)

(ii) $\frac{3}{15}+\frac{7}{15}=\frac{3+7}{15}$
$=\frac{10\div 5}{15\div 5}=\frac{2}{3}$ (Dividing numerator & denominator by their HCF)

(iii) $\frac{3}{22}+\frac{7}{22}=\frac{3+7}{22}$
$=\frac{10\div 2}{22\div 2}=\frac{5}{11}$ (Dividing numerator & denominator by their HCF)

(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) $\frac{0}{15}+\frac{2}{15}+\frac{1}{15}=\frac{0+2+1}{15}$
$=\frac{3\div 3}{15\div 3}=\frac{1}{5}$ (Dividing numerator & denominator by their HCF)

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

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

(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 **********