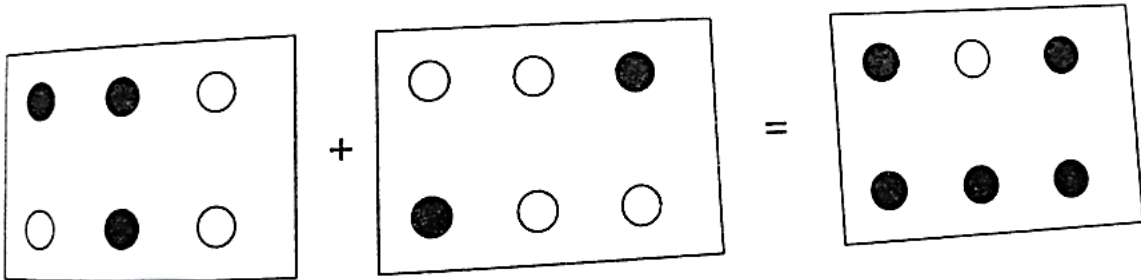
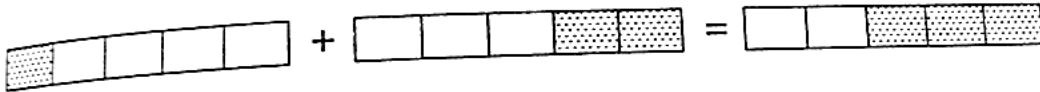


## Exercise 6.8

### Question: 1

Write these fractions appropriately as additions or subtraction:



**Solution:**

(i)  $\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$  [ $\because \frac{1+2}{5} = \frac{3}{5}$ ]

(ii)  $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

### Question: 2

**Solve:**

$$\text{i) } \frac{5}{12} + \frac{1}{12}$$

$$\text{ii) } \frac{3}{15} + \frac{7}{15}$$

$$\text{iii) } \frac{3}{22} + \frac{7}{22}$$

$$\text{iv) } \frac{1}{4} + \frac{0}{4}$$

$$\text{v) } \frac{4}{13} + \frac{2}{13} + \frac{1}{13}$$

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

$$\text{vii) } \frac{7}{31} - \frac{4}{31} + \frac{9}{31}$$

$$\text{viii) } 3\frac{2}{7} + \frac{1}{7} - 2\frac{3}{7}$$

$$\text{ix) } 2\frac{1}{3} - 1\frac{2}{3} - 4\frac{1}{3}$$

$$\text{x) } \frac{1}{1} - \frac{2}{3} + \frac{7}{3}$$

$$\text{xi) } \frac{16}{7} - \frac{5}{7} + \frac{9}{7}$$



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**Solution:**

i) The given fractions are:

$$\frac{5}{12} + \frac{1}{12} = \frac{1+5}{12} = \frac{6}{12} = \frac{1}{2}$$

Hence the answer is  $\frac{1}{2}$

ii) The given fractions are:

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

Hence the answer is  $\frac{4}{3}$

iii) the given fractions are:

$$\frac{3}{22} + \frac{7}{22} = \frac{3+7}{22} = \frac{10}{22} = \frac{5}{11}$$

Hence the answer is  $\frac{5}{11}$

iv) the given fractions are:

$$\begin{aligned} \frac{1}{4} + \frac{0}{4} \\ = \frac{1+0}{4} = \frac{1}{4} \end{aligned}$$

Hence the answer is  $\frac{1}{4}$

v) The given fractions are:

$$\begin{aligned} \frac{4}{13} + \frac{2}{13} + \frac{1}{13} \\ = \frac{4+2+1}{13} = \frac{7}{13} \end{aligned}$$

Hence the answer is  $\frac{7}{13}$

vi) the given fractions are:

$$\begin{aligned} \frac{0}{15} + \frac{2}{15} + \frac{1}{15} \\ = \frac{0+2+1}{15} = \frac{3}{15} = \frac{1}{5} \end{aligned}$$

Hence the answer is  $\frac{1}{5}$

vii) the given fractions are:

$$\begin{aligned} \frac{7}{31} - \frac{4}{31} + \frac{9}{31} \\ = \frac{7-4+9}{31} = \frac{12}{31} \end{aligned}$$

Hence the answer is  $\frac{12}{31}$

viii) the given fractions are:

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

Hence the answer is  $1/1 = 1$

ix) the given fractions are:

$$3\frac{2}{7} + \frac{1}{7} - 2\frac{3}{7}$$
$$= \frac{23 + 1 - 17}{7} = \frac{35}{7} = \frac{5}{1} = 5$$

Hence the answer is  $5/1 = 5$

x) the given fractions are:

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

Hence the answer is  $8/3$

xi) the given fractions are:

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

Hence the answer is  $20/7$

### Question: 3

Shikha painted  $1/5$  of the wall space in her room. Her brother ravish helped and painted  $3/5$  of the wall space. How much did they paint together? How much the room is left unpainted?

**Solution:**

Shikha painted  $\frac{1}{5}$  of the wall space in her room

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  $= \frac{1-4}{5} = \frac{5-4}{5} = \frac{1}{5}$

**Question: 4**

Ramesh bought  $2\frac{1}{2}$  kg sugar whereas rohit bought  $3\frac{1}{2}$  kg of sugar. Find the total amount of sugar bought by both of them.

**Solution:**

Quantity of sugar bought by ramesh  $= 2\frac{1}{2}$  kg

$$= \frac{(2 \times 2) + 1}{2} = \frac{5}{2} \text{ kg}$$

Quantity of sugar bought by rohit  $= 3\frac{1}{2}$  kg

$$= \frac{(2 \times 3) + 1}{2} = \frac{7}{2} \text{ kg}$$

Total amount of sugar bought by them:

Quantity of sugar bought by rohit + Quantity of sugar bought by ramesh

$$= \frac{5}{2} \text{ kg} + \frac{7}{2} \text{ kg}$$

= 6 kg (Dividing numerator and denominator by their HCF (6))

**Question: 5**

**The teacher taught  $\frac{3}{5}$  of the book, Vivek revised  $\frac{1}{5}$  more on his own. How much does he still have to revise?**

**Solution:**

Fraction of the book taught by the teacher =  $\frac{3}{5}$

Fraction of the book revised by vivek =  $\frac{1}{5}$

Fraction of the book still left for revision by vivek:

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

Therefore, Fraction of the book still left for revision by vivek is  $\frac{2}{5}$

**Question: 6**

**Amit was given  $\frac{5}{7}$  of a bucket of oranges. What fraction of oranges was left in the basket?**

**Solution:**

Fraction of oranges given to amit =  $\frac{5}{7}$

Fraction of oranges left in the basket:

$$1 - \frac{5}{7} = \frac{7-5}{7} = \frac{2}{7}$$

Therefore, Fraction of oranges left in the basket is  $\frac{2}{7}$

**Question: 7**

$$\text{i) } \frac{7}{10} - \frac{*}{*} = \frac{3}{10}$$

$$\text{ii) } \frac{*}{*} - \frac{3}{21} = \frac{5}{21}$$

$$\text{iii) } \frac{*}{*} - \frac{3}{6} = \frac{3}{6}$$

$$\text{iv) } \frac{*}{*} - \frac{5}{27} = \frac{12}{27}$$

**Solution:**

i) Given:

$$\frac{7}{10} - \frac{*}{*} = \frac{3}{10}$$

$$\frac{7}{10} - \frac{3}{10} = \frac{*}{*}$$

$$\frac{7-3}{10} = \frac{2}{5}$$

Therefore,

$$\frac{*}{*} = \frac{2}{5}$$

ii) Given:

$$\frac{*}{*} - \frac{3}{21} = \frac{5}{21}$$

$$\frac{*}{*} = -\frac{3}{21} + \frac{5}{21}$$

$$\frac{5-3}{21} = \frac{2}{21}$$

Therefore,

$$\frac{*}{*} = \frac{2}{21}$$

iii) Given:

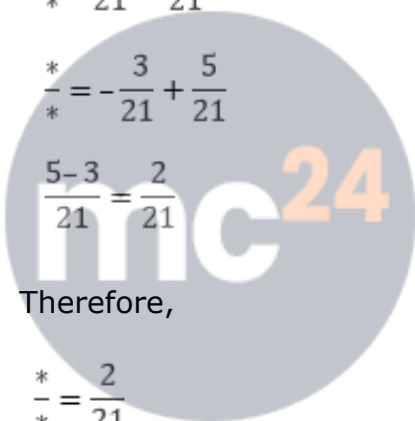
$$\frac{*}{*} - \frac{3}{6} = \frac{3}{6}$$

$$\frac{*}{*} = \frac{3}{6} + \frac{3}{6}$$

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

Therefore,

$$\frac{*}{*} = \frac{6}{6} = \frac{1}{1} = 1$$



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iv) Given:

$$\frac{*}{*} - \frac{5}{27} = \frac{12}{27}$$

$$\frac{*}{*} = \frac{5}{27} + \frac{12}{27}$$

$$\frac{5 + 12}{27} = \frac{17}{27}$$

Therefore,

$$\frac{*}{*} = \frac{17}{27}$$

