

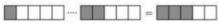
# NCERT SOLUTIONS FOR CLASS 6 MATHS FRACTIONS EXERCISE 7.5

### Exercise 7.5

#### Question 1:

Write these fractions appropriately as additions or subtractions:

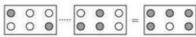
(a)



(b)



(c)



# Answer:

(a) Here, it can be observed that  $1^{st}$ ,  $2^{nd}$ , and  $3^{rd}$  rectangles are representing 1, 2, and 3 shaded parts out of 5 equal parts respectively. Clearly, the fraction represented by  $3^{rd}$  rectangle is the sum of the fractions represented by  $1^{st}$  and  $2^{nd}$  rectangles.

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

(b) Here, it can be observed that 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> circles are representing 5, 3, and 2 shaded parts out of 5 equal parts respectively. Clearly, the fraction represented by 3<sup>rd</sup> circle is the difference between the fractions represented by 1<sup>st</sup> and 2<sup>nd</sup> circles.

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

(c) Here, it can be observed that  $1^{st}$ ,  $2^{nd}$ , and  $3^{rd}$  rectangles are representing 2, 3, and 5 shaded parts out of 6 equal parts respectively. Clearly, the fraction represented by  $3^{rd}$  rectangle is the sum of the fractions represented by  $1^{st}$  and  $2^{nd}$  rectangles.

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

#### Question 2:

Solve:

(a) 
$$\frac{1}{18} + \frac{1}{18}$$
 (b)  $\frac{8}{15} + \frac{3}{15}$ 

$$\frac{7}{7} - \frac{5}{7}$$
 (d)  $\frac{1}{22} + \frac{21}{22}$ 

(e) 
$$\frac{12}{15} - \frac{7}{15}$$
 (f)  $\frac{5}{8} + \frac{3}{8}$ 

(g) 
$$1 - \frac{2}{3} \left( 1 = \frac{3}{3} \right)_{\text{(h)}} \frac{1}{4} + \frac{0}{4}$$

(i) 
$$3 - \frac{12}{5}$$

Answer:

(a) 
$$\frac{1}{18} + \frac{1}{18} = \frac{1+1}{18} = \frac{2}{18} = \frac{1}{9}$$

(b) 
$$\frac{8}{15} + \frac{3}{15} = \frac{8+3}{15} = \frac{11}{15}$$

(c) 
$$\frac{7}{7} - \frac{5}{7} = \frac{7-5}{7} = \frac{2}{7}$$

$$\frac{1}{(d)} \frac{1}{22} + \frac{21}{22} = \frac{1+21}{22} = \frac{22}{22} = 1$$

(e) 
$$\frac{12}{15} - \frac{7}{15} = \frac{12 - 7}{15} = \frac{5}{15} = \frac{1}{3}$$

$$\frac{5}{8} + \frac{3}{8} = \frac{5+3}{8} = \frac{8}{8} = 1$$

(g) 
$$1 - \frac{2}{3} = \frac{3}{3} - \frac{2}{3} = \frac{3 - 2}{3} = \frac{1}{3}$$

$$\frac{1}{4} + \frac{0}{4} = \frac{1}{4} + 0 = \frac{1}{4}$$

(i) 
$$3 - \frac{12}{5} = \frac{15}{5} - \frac{12}{5} = \frac{15 - 12}{5} = \frac{3}{5}$$

# Question 3:

Answer:

 $\frac{2}{3}$  of the wall space in his room. His sister Madhavi helped and painted

 $\frac{1}{3}$  of the wall space. How much did they paint together?

Space painted by Shubham =  $\frac{2}{3}$  of the room

Space painted by Madhavi =  $\frac{1}{3}$  of the room

Hence, together they painted =  $\left(\frac{2}{3} + \frac{1}{3}\right)$  of the room

## Question 4:

Fill in the missing fractions.

(a) 
$$\frac{7}{10} - \square = \frac{3}{10}$$
 (b)  $\square - \frac{3}{21} = \frac{5}{21}$ 

(c) 
$$\Box -\frac{3}{6} = \frac{3}{6}$$
 (d)  $\Box + \frac{5}{27} = \frac{12}{27}$ 

Answer:

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

$$\Box = \frac{7}{10} - \frac{3}{10} = \frac{7 - 3}{10} = \frac{4}{10} = \frac{2}{5}$$

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

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

$$\Box = \frac{3}{6} + \frac{3}{6} = \frac{3+3}{6} = \frac{6}{6} = 1$$

$$(d)$$
  $+\frac{5}{27} = \frac{12}{27}$ 

$$\Box = \frac{12}{27} - \frac{5}{27} = \frac{12 - 5}{27} = \frac{7}{27}$$

#### Question 5

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

Answer

Fractions given to Javed =  $\frac{5}{7}$ 

Fraction left in the basket =  $1 - \frac{5}{7} = \frac{7}{7} - \frac{5}{7} = \frac{7-5}{7} = \frac{2}{7}$ 

\*\*\*\*\*\*\* END \*\*\*\*\*\*