NCERT SOLUTIONS FOR CLASS 6 MATHS FRACTIONS
EXERCISE 7.5

**Exercise 7.5**

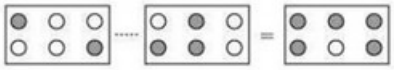
**Question 1:**

Write these fractions appropriately as additions or subtractions:

(a)

(b)

(c)



Answer:

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

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

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

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

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

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

**Question 2:**

Solve:

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

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

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

(g) $1-\frac{2}{3}\left(1=\frac{3}{3}\right)$ (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) $\frac{7}{7}-\frac{5}{7}=\frac{7-5}{7}=\frac{2}{7}$

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

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

(f) $\frac{5}{8}+\frac{3}{8}=\frac{5+3}{8}=\frac{8}{8}=1$

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

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

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

**Question 3:**

Shubham painted $\frac{2}{3}$ 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?

Answer:

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

= 1 = the complete wall

**Question 4:**

Fill in the missing fractions.

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

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

Answer:

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

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

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

$\square=\frac{5}{21}+\frac{3}{21}=\frac{5+3}{21}=\frac{8}{21}$

(c) $\square-\frac{3}{6}=\frac{3}{6}$

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

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

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

**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 **********