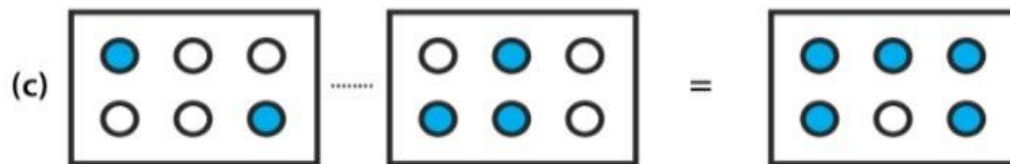
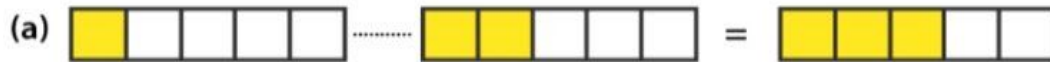


Class-6(Maths solution)By: Prashant kr.

7.Fraction (Ex- 7.5)

1. Write these fractions appropriately as additions or subtractions:



Solutions:

(a) Total number of parts each rectangle has = 5

No. of shaded parts in first rectangle = 1 i.e $1/5$

No. of shaded parts in second rectangle = 2 i.e $2/5$

No. of shaded parts in third rectangle = 3 i.e $3/5$

Clearly, fraction represented by third rectangle = Sum of the fractions represented by first and second rectangle

Hence, $1/5 + 2/5 = 3/5$

(b) Total number of parts each circle has = 5

We may observe that first, second and third circles represent 5, 3 and 2 shaded parts out of 5 equal parts respectively. Clearly, fraction represented by third circle is the difference between the fractions represented by first and second circles.

Hence, $5/5 - 3/5 = 2/5$

(c) Here we may observe that first, second and third rectangles represents 2, 3 and 5 shaded parts out of 6 equal parts respectively. Clearly, fraction represented by third rectangle is the sum of fractions represented by first and second rectangles.

Hence, $2/6 + 3/6 = 5/6$

2. Solve:

(a) $1/18 + 1/18$

(b) $8/15 + 3/15$

(c) $7/7 - 5/7$

(d) $1/22 + 21/22$

(e) $12/15 - 7/15$

(f) $5/8 + 3/8$

(g) $1 - 2/3$ ($1 = 3/3$)

(h) $1/4 + 0/4$

(i) $3 - 12/5$

Solutions:

(a) $1/18 + 1/18$

$$= (1 + 1) / 18$$

$$= 2 / 18$$

$$= 1 / 9$$

(b) $8/15 + 3/15$

$$= (8 + 3) / 15$$

$$= 11 / 15$$

(c) $7/7 - 5/7$

$$= (7 - 5) / 7$$

$$= 2 / 7$$

(d) $1/22 + 21/22$

$$= (1 + 21) / 22$$

$$= 22 / 22$$

$$= 1$$

(e) $12/15 - 7/15$

$$= (12 - 7) / 15$$

$$= 5 / 15$$

$$= 1 / 3$$

(f) $5/8 + 3/8$

$$= (5 + 3) / 8$$

$$= 8 / 8$$

$$= 1$$

(g) $1 - 2/3$

$$= 3/3 - 2/3$$

$$= (3 - 2) / 3$$

$$= 1 / 3$$

(h) $1/4 + 0$

$$= 1/4$$

(i) $3 - 12/5$

$$= 15/5 - 12/5$$

$$= (15 - 12) / 5$$

$$= 3 / 5$$

3. Shubham painted $2/3$ of the wall space in his room. His sister Madhavi helped and painted $1/3$ of the wall space. How much did they paint together?

Solutions:

Wall space painted by Shubham in a room = $2/3$

Wall space painted by Madhavi in a room = $1/3$

Total space painted by both = $(2/3 + 1/3)$

$$= (2 + 1) / 3$$

$$= 3 / 3$$

$$= 1$$

\therefore Shubham and Madhavi together painted 1 complete wall in a room.

4. Fill in the missing fractions.

(a) $7/10 - \square = 3/10$

(b) $\square - 3/21 = 5/21$

(c) $\square - 3/6 = 3/6$

(d) $\square + 5/27 = 12/27$

Solutions:

(a) Given $7/10 - \square = 3/10$

$$\square = 7/10 - 3/10$$

$$\square = (7 - 3)/10$$

$$\square = 4/10$$

$$\square = 2/5$$

(b) Given $\square - 3/21 = 5/21$

$$\square = 5/21 + 3/21$$

$$\square = (5 + 3)/21$$

$$\square = 8/21$$

(c) Given $\square - 3/6 = 3/6$

$$\square = 3/6 + 3/6$$

$$\square = (3 + 3)/6$$

$$\square = 6/6$$

$$\square = 1$$

(d) Given $\square + 5/27 = 12/27$

$$\square = 12/27 - 5/27$$

$$\square = (12 - 5)/27$$

$$\square = 7/27$$

5. Javed was given $5/7$ of a basket of oranges. What fraction of oranges was left in the basket?

Solutions:

Fraction of oranges given to Javed = $5/7$

Fraction of oranges left in the basket = $1 - 5/7$

$$= 7/7 - 5/7$$

$$= (7 - 5)/7$$

$$= 2/7$$