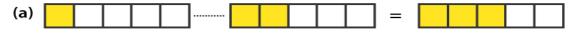
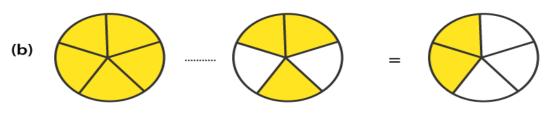
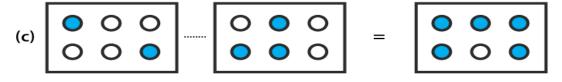


EXERCISE 7.5 PAGE NO: 157

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)
$$1/18 + 1/18$$

= $(1+1)/18$
= $2/18$
= $1/9$

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

= $(7-5)/7$
= $2/7$

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

= $(12-7)/15$
= $5/15$
= $1/3$

(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

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



4. Fill in the missing fractions.

- (a) $7/10 \Box = 3/10$
- (b) \Box 3 / 21 = 5 / 21
- (c) $\Box 3/6 = 3/6$
- (d) \Box + 5 / 27 = 12 / 27

Solutions:

- (a) Given $7 / 10 \square = 3 / 10$
 - $\Box = 7 / 10 3 / 10$
 - $\Box = (7-3) / 10$
 - $\square = 4 / 10$
 - $\square = 2 / 5$
- (b) Given \Box 3 / 21 = 5 / 21
 - $\Box = 5 / 21 + 3 / 21$
 - $\Box = (5+3)/21$
 - $\Pi = 8 / 21$
- (c) Given $\Box 3 / 6 = 3 / 6$
 - $\Box = 3 / 6 + 3 / 6$
 - $\Box = (3+3)/6$
 - $\Box = 6/6$
 - $\square = 1$
- (d) Given $\Box + 5 / 27 = 12 / 27$
 - $\Box = 12 / 27 5 / 27$
 - $\Box = (12 5) / 27$
 - $\Pi = 7/27$

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

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

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

$$= 2 / 7$$