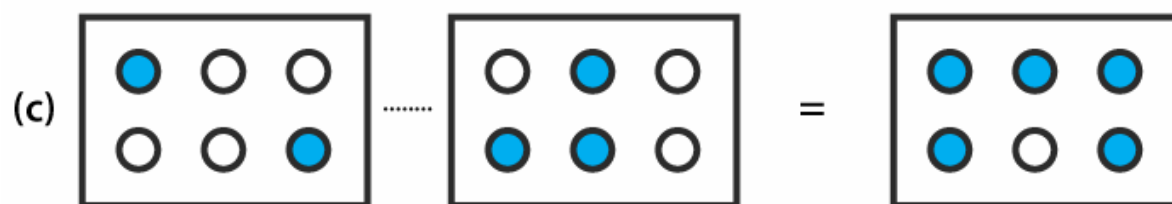# Access NCERT Solutions for Class 6 Chapter 7: Fractions Exercise 7.5

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

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

4. Fill in the missing fractions.

(a) 7 / 10 − ▢ = 3 / 10

(b) ▢ − 3 / 21 = 5 / 21

(c) ▢ − 3 / 6 = 3 / 6

(d) ▢ + 5 / 27 = 12 / 27

Solutions:

(a) Given 7 / 10 − ▢ = 3 / 10

▢ = 7 / 10 − 3 / 10

▢ = (7 − 3) / 10

▢ = 4 / 10

▢ = 2 / 5

(b) Given ▢ − 3 / 21 = 5 / 21

▢ = 5 / 21 + 3 / 21

☐ = (5 + 3) / 21

☐ = 8 / 21

(c) Given ☐ – 3 / 6 = 3 / 6

☐ = 3 / 6 + 3 / 6

☐ = (3 + 3) / 6

☐ = 6 / 6

☐ = 1

(d) Given ☐ + 5 / 27 = 12 / 27

☐ = 12 / 27 – 5 /27

☐ = (12 – 5) / 27

☐ = 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