Access NCERT Solutions for Class 6 Chapter 7: Fractions Exercise 7.2

1. Draw number lines and locate the points on them:

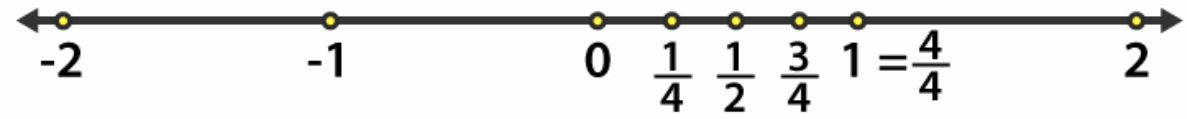
(a) 1 / 2, 1 / 4, 3 / 4, 4 / 4

(b) 1 / 8, 2 / 8, 3 / 8, 7 / 8

(c) 2 / 5, 3 / 5, 8 / 5, 4 / 5

Solutions:

(a) 1 / 2, 1 / 4, 3 / 4, 4 / 4



Here divide the number line from 0 to 1 into four equal parts

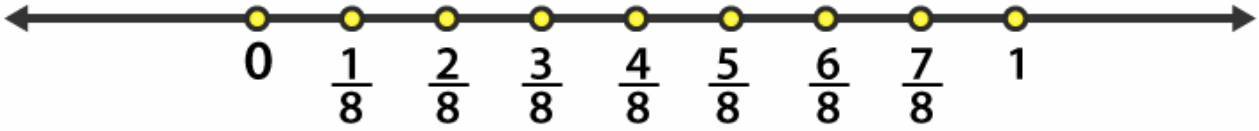
C = 2 / 4 = 1 / 2

B = 1 / 4

D = 3 / 4 and

E = 4 / 4 = 1

(b) 1 / 8, 2 / 8, 3 / 8, 7 / 8



Divide the number line from 0 to 1 into eight equal parts

B = 1 / 8

C = 2 / 8

D = 3 / 8

H = 7 / 8

(c) 2 / 5, 3 / 5, 8 / 5, 4 / 5

From the given number line, we have

C = 2 / 5

D = 3 / 5

E = 4 / 5

I = 8 / 5

2. Express the following as mixed fractions:

(a) 20 / 3

(b) 11 / 5

(c) 17 / 7

(d) 28 / 5

(e) 19 / 6

(f) 35 / 9

Solutions:

(a) 20 / 3

3	20	6
	18	
	2	

∴ 20 / 3 =

$$6\frac{2}{3}$$

(b) 11 / 5

5	11	2
	10	
	1	

∴ 11 / 5 =

$$2\frac{1}{5}$$

(c) 17 / 7

∴ 17 / 7 =

$$2\frac{3}{7}$$

7	17	2
	14	
	3	

(d) 28 / 5

5	28	5
	25	
	3	

∴ 28 / 5 =

$$5\frac{3}{5}$$

(e) 19 / 6

6	19	3
	18	
	1	

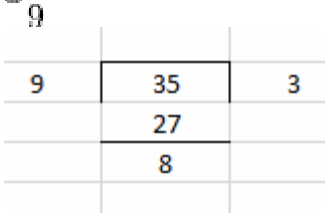
∴ 19 / 6 =

$$3\frac{1}{6}$$

(f) 35 / 9

∴ 35 / 9 =

$3\frac{8}{9}$



3. Express the following as improper fractions:

(a) $7\frac{3}{4}$

(b) $5\frac{6}{7}$

(c) $2\frac{5}{6}$

(d) $10\frac{3}{5}$

(e) $9\frac{3}{7}$

(f) $8\frac{4}{9}$

Solutions:

(a) (7 × 4 + 3) / 4 = 31 / 4

∴ The improper form is 31 / 4

(b) (5 × 7 + 6) / 7 = 41 / 7

∴ The improper form is 41 / 7

(c) (2 × 6 + 5) / 6 = 17 / 6

∴ The improper form is 17 / 6

(d) (10 × 5 + 3) / 5 = 53 / 5

∴ The improper form is 53 / 5

(e) (9 × 7 + 3) / 7 = 66 / 7

∴ The improper form is 66 / 7

(f) (8 × 9 + 4) / 9 = 76 / 9

∴ The improper form is 76 / 9