Mathematics

(www.tiwariacademy.com)
(Chapter – 7) (Fractions)
(Class – VI)

Exercise 7.2

Question 1:

Draw number lines and locate the points on them:

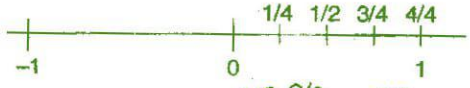
(a) $\frac{1}{2}, \frac{1}{4}, \frac{3}{4}, \frac{4}{4}$

(b) $\frac{1}{8}, \frac{2}{8}, \frac{3}{8}, \frac{7}{8}$

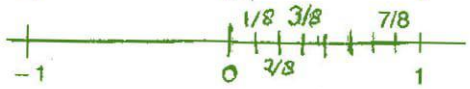
(c) $\frac{2}{5}, \frac{3}{5}, \frac{8}{5}, \frac{4}{5}$

Answer 1:

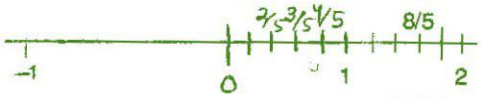
(a)



(b)



(c)



Question 2:

Express the following fractions as mixed fractions:

(a) $\frac{20}{3}$ (b) $\frac{11}{5}$ (c) $\frac{17}{7}$ (d) $\frac{28}{5}$ (e) $\frac{19}{6}$ (f) $\frac{35}{9}$

Answer 2:

(a)
$$3\overline{)20}\ 6$$
$$-18$$
$$2$$
$$\therefore \frac{20}{3} = 6\frac{2}{3}$$

(b)
$$5\overline{)11}\ 2$$
$$-10$$
$$1$$
$$\therefore \frac{11}{5} = 2\frac{1}{5}$$

(c)
$$7\overline{)17}\ 2$$
$$-14$$
$$3$$
$$\therefore \frac{17}{7} = 2\frac{3}{7}$$

(d)
$$5\overline{)28}\ 5$$
$$-25$$
$$3$$
$$\therefore \frac{28}{5} = 5\frac{3}{5}$$

(e)
$$6\overline{)19}\ 3$$
$$-18$$
$$1$$
$$\therefore \frac{19}{6} = 3\frac{1}{6}$$

(f)
$$9\overline{)35}\ 3$$
$$-27$$
$$8$$
$$\therefore \frac{35}{9} = 3\frac{8}{9}$$

Question 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) $8\frac{4}{9}$

Answer 3:

(a) $7\frac{3}{4}=\frac{(7\times4)+3}{4}=\frac{28+3}{4}=\frac{31}{4}$

(b) $5\frac{6}{7}=\frac{(5\times7)+6}{7}=\frac{35+6}{7}=\frac{41}{7}$

(c) $2\frac{5}{6}=\frac{(2\times6)+5}{6}=\frac{12+5}{6}=\frac{17}{6}$

(d) $10\frac{3}{5}=\frac{(10\times5)+3}{5}=\frac{50+3}{5}=\frac{53}{5}$

(e) $9\frac{3}{7}=\frac{(9\times7)+3}{7}=\frac{63+3}{7}=\frac{66}{7}$

(f) $8\frac{4}{9}=\frac{(8\times9)+4}{9}=\frac{72+4}{9}=\frac{76}{9}$