

Weekly Task: Exercise 3.1

Q11

$$\frac{5}{6} - \frac{2}{9}$$

Row

$$\begin{array}{l|l} 2 & 6, 9 \end{array}$$

$$\begin{array}{l|l} 3 & 3, 9 \end{array}$$

$$\begin{array}{l|l} 3 & 1, 3 \end{array}$$

$$1, 1$$

$$\text{LCM} = 2 \times 3 \times 3 = 18$$

$$\text{Sol:} = \frac{5 \times 3}{6 \times 3} - \frac{2 \times 2}{9 \times 2}$$

$$= \frac{15}{18} - \frac{4}{18}$$

$$= \frac{15 - 4}{18}$$

$$= \frac{11}{18}$$

Q12

$$\frac{5}{13} - \frac{3}{26}$$

Row

$$\begin{array}{l|l} 2 & 13, 26 \end{array}$$

$$\begin{array}{l|l} 13 & 13, 13 \end{array}$$

$$1, 1$$

$$\frac{10}{26} - \frac{3}{26}$$

$$\text{LCM} = 2 \times 13 = 26$$

$$\frac{10-3}{26}$$

$$26$$

$$7$$

$$26$$

Q13 $\frac{3}{4} - \frac{1}{3}$

$$4 \quad 3$$

$$\frac{3 \times 3 - 1 \times 4}{4 \times 3 \quad 3 \times 4}$$

$$9 - 4$$

$$12 \quad 12$$

$$9 - 4$$

$$12$$

$$\frac{5}{12}$$

$$12$$

Row

$$2 \mid 4, 3$$

$$2 \mid 2, 3$$

$$3 \mid 1, 3$$

$$1, 1$$

$$\text{LCM} = 2 \times 2 \times 3$$

$$= 12$$

81

$$\text{Q14 } \frac{15}{17} - \frac{25}{34}$$

$$\frac{15 \times 2}{17 \times 2} - \frac{25 \times 1}{34 \times 1}$$

$$\frac{30}{34} - \frac{25}{34}$$

$$\frac{30 - 25}{34}$$

$$34$$

$$5$$

$$34$$

R.w

$$2 \mid 17, 34$$

$$17 \mid 17, 17$$

$$1, 1$$

$$\text{LCM} = 2 \times 17$$

$$= 34$$

$$\text{Q15 } \frac{5}{13} - \frac{5}{26}$$

$$\frac{5 \times 2}{13 \times 2} - \frac{5 \times 1}{26 \times 1}$$

$$\frac{10}{26} - \frac{5}{26}$$

$$\frac{10 - 5}{26}$$

R.w

$$2 \mid 13, 26$$

$$13 \mid 13, 13$$

$$1, 1$$

$$\text{LCM} = 2 \times 13$$

$$= 26$$

$$\frac{10-5}{26}$$

$$26$$

$$5$$

$$26$$

Q16 $\frac{3}{7} - \frac{1}{8}$

$$\frac{3 \times 8}{7 \times 8} - \frac{1 \times 7}{8 \times 7}$$

$$\frac{24}{56} - \frac{7}{56}$$

$$56 - 56$$

$$\frac{24-7}{56}$$

$$17$$

$$56$$

R.w

$$2 \mid 7, 8$$

$$2 \mid 7, 4$$

$$2 \mid 7, 2$$

$$7 \mid 7, 1$$

$$1, 1$$

$$\text{LCM} = 2 \times 2 \times 2 \times 7$$

$$= 56$$

$$\text{Q17 } \frac{7}{10} - \frac{13}{20}$$

$$\frac{7 \times 2}{10 \times 2} - \frac{13 \times 1}{20 \times 1}$$

$$\frac{14}{20} - \frac{13}{20} = \frac{14-13}{20}$$

$$= \frac{1}{20}$$

R.w

$$2 \mid 10, 20$$

$$2 \mid 5, 10$$

$$5 \mid 5, 5$$

1, 1

$$\text{LCM} = 2 \times 2 \times 5$$

$$= 20$$

$$\text{Q18 } \frac{7}{20} - \frac{7}{30}$$

$$\frac{7 \times 3}{20 \times 3} - \frac{7 \times 2}{30 \times 2}$$

$$\frac{21}{60} - \frac{14}{60}$$

$$\frac{21-14}{60} = \frac{7}{60}$$

R.w

$$2 \mid 20, 30$$

$$2 \mid 10, 15$$

$$3 \mid 5, 15$$

$$5 \mid 5, 5$$

1, 1

$$\text{LCM} = 2 \times 2 \times 3 \times 5$$

$$= 60$$