

# Weekly Task: Math

## Exercise 3.2

Q7:  $\frac{2}{3} + \frac{4}{5} + \frac{1}{9}$

Row  
 $3 \mid 3, 5, 9$

$$= \frac{2 \times 15}{3 \times 15} + \frac{4 \times 9}{5 \times 9} + \frac{1 \times 5}{9 \times 5}$$

$$3 \mid 1, 5, 3$$

$$= \frac{30}{45} + \frac{36}{45} + \frac{5}{45}$$

$$5 \mid 1, 5, 1$$
  
 $10 \mid 1, 1$

$$= \frac{30 + 36 + 5}{45}$$

LCM:  $3 \times 3 \times 5$   
 $= 45$

$$= \frac{71}{45}$$

Q8:  $\frac{9}{10} - \frac{1}{2} - \frac{1}{5}$

Row  
 $2 \mid 2, 5, 10$

$$\frac{9 \times 1}{10 \times 1} - \frac{1 \times 5}{2 \times 5} - \frac{1 \times 2}{5 \times 2}$$

$$5 \mid 1, 5, 5$$
  
 $1, 1, 1$   
LCM:  $2 \times 5$   
 $= 10$

$$= \frac{9}{10} - \frac{5}{10} - \frac{2}{10}$$

$$= \frac{9 - 5 - 2}{10}$$

$$= \frac{4 - 2}{10} = \frac{2}{10} = \frac{1}{5}$$

Q9:  $\frac{3}{10} + \frac{1}{4} + \frac{5}{6}$  Low

$$\frac{3 \times 6}{10 \times 6} + \frac{1 \times 15}{4 \times 15} + \frac{5 \times 10}{6 \times 10}$$

$$= \frac{18}{60} + \frac{15}{60} + \frac{50}{60}$$

$$= \frac{18 + 15 + 50}{60}$$

$$= \frac{83}{60}$$

$$2 \mid 10, 4, 6$$

$$2 \mid 5, 2, 3$$

$$3 \mid 5, 1, 3$$

$$5 \mid 5, 1, 1$$

$$1 \mid 1, 1, 1$$

$$\text{LCM} = 2 \times 2 \times 3 \times 5 = 60$$

Q10  $\frac{13}{14} - \frac{1}{3} - \frac{1}{5}$       Row

$$\begin{aligned}
 & \frac{13 \times 15}{14 \times 15} - \frac{1 \times 70}{3 \times 70} - \frac{1 \times 42}{5 \times 42} \\
 & = \frac{195}{210} - \frac{70}{210} - \frac{42}{210} \\
 & = \frac{195 - 70 - 42}{210} \\
 & = \frac{123 - 42}{210} \\
 & = \frac{81}{210}
 \end{aligned}$$

$$2 \mid 14, 3, 5$$

$$3 \mid 7, 3, 5$$

$$5 \mid 7, 1, 5$$

$$7 \mid 7, 1, 1$$

$$10 \mid 1, 1$$

LCM:  $2 \times 3 \times 5 \times 7$

$$= 210$$

$$Q11 \quad \frac{4}{5} + \frac{5}{6} + \frac{1}{3}$$

$$= \frac{4 \times 6}{5 \times 6} + \frac{5 \times 5}{6 \times 5} + \frac{1 \times 10}{3 \times 10}$$

$$= \frac{24}{30} + \frac{25}{30} + \frac{10}{30}$$

$$= \frac{24 + 25 + 10}{30}$$

$$= \frac{59}{30}$$

$$= 1 \frac{29}{30}$$

R.w

$$2 \mid 5, 6, 3$$

$$3 \mid 5, 3, 3$$

$$5 \mid 5, 1, 1$$

$$\mid 1, 1, 1$$

$$LCM = 2 \times 3 \times 5$$

$$= 30$$

$$30 \overline{) 59} \mid 1$$

$$\underline{30}$$

$$29$$

$$\text{Q12 } \frac{6}{7} - \frac{1}{3} - \frac{1}{2}$$

$$= \frac{6 \times 6}{7 \times 6} - \frac{1 \times 14}{3 \times 14} - \frac{1 \times 21}{2 \times 21}$$

$$= \frac{36}{42} - \frac{14}{42} - \frac{21}{42}$$

$$= \frac{36 - 14 - 21}{42}$$

$$= \frac{22 - 21}{42}$$

$$= \frac{1}{42}$$

R.w

$$2 \mid 7, 3, 2$$

$$3 \mid 7, 3, 1$$

$$7 \mid 7, 1, 1$$

$$1, 1, 1$$

$$\text{LCM} = 2 \times 3 \times 7$$

$$= 42$$