

Weekly Task: 5 Class 5

Exercise 3.1 Mathematics

Q Solve

① $\frac{1}{6} + \frac{2}{9}$

$\frac{1 \times 3}{6 \times 3} + \frac{2 \times 2}{9 \times 2}$	R.O.W
$= \frac{3}{18} + \frac{4}{18}$	Take LCM:
$= \frac{3+4}{18}$	2 6, 9
$= \frac{7}{18}$	3 3, 9
	3 1, 3
	1, 1
	LCM = $2 \times 3 \times 3$
	$= 18$

② $\frac{2}{9} + \frac{4}{15}$

$\frac{2 \times 5}{9 \times 5} + \frac{4 \times 3}{15 \times 3}$	R.O.W
$= \frac{10}{45} + \frac{12}{45}$	3 9, 15
	3 3, 5
	5 1, 5
	1, 5
	LCM = $3 \times 3 \times 5$
	$= 45$

$$= \frac{10+12}{45}$$

$$= \frac{22}{45}$$

$$\text{Q3: } \frac{5}{9} + \frac{2}{11}$$

$$= \frac{5 \times 11 + 2 \times 9}{9 \times 11 \quad 11 \times 9}$$

$$= \frac{55}{99} + \frac{18}{99}$$

$$= \frac{55+18}{99}$$

$$= \frac{73}{99}$$

$$\text{Q4: } \frac{7}{24} + \frac{5}{36}$$

Row

LCM

$$3 \mid 9, 11$$

$$3 \mid 3, 11$$

$$11 \mid 1, 11$$

$$1, 1$$

$$\text{LCM: } 3 \times 3 \times 11$$

$$= 99$$

	Row
$\frac{7 \times 3}{24 \times 3} + \frac{5 \times 2}{36 \times 2}$	2 24, 36
$= \frac{21}{72} + \frac{10}{72}$	2 12, 18
	2 6, 9
	3 3, 9
$= \frac{21+10}{72}$	3 3
	1 1
$= \frac{31}{72}$	LCM:- $2 \times 2 \times 2 \times 3 \times 3$ $= 72$

	Row
Q5: $\frac{2}{3} + \frac{1}{5}$	3 3, 5
$\frac{2 \times 5}{3 \times 5} + \frac{1 \times 3}{5 \times 3}$	5 1, 5
$= \frac{10}{15} + \frac{3}{15}$	1 1
	LCM:- 3×5 $= 15$
$= \frac{10+3}{15}$	

$$\frac{13}{15}$$

$$\text{Q6 } \frac{5}{13} + \frac{1}{26}$$

$$\Rightarrow \frac{5 \times 2}{13 \times 2} + \frac{1 \times 1}{26}$$

$$= \frac{10}{26} + \frac{1}{26}$$

$$= \frac{10+1}{26}$$

$$= \frac{11}{26}$$

Low

$$2 \mid 13, 26$$

$$13 \mid 13, 13$$

$$\downarrow 6 \mid$$

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

$$\text{Q7 } \frac{7}{8} + \frac{5}{32}$$

$$\frac{7 \times 4}{8 \times 4} + \frac{5 \times 1}{32 \times 1}$$

$$\frac{28}{32} + \frac{5}{32}$$

$$\frac{28+5}{32}$$

$$Q8: \frac{1}{14} + \frac{2}{21}$$

$$\frac{1 \times 3}{14 \times 3} + \frac{2 \times 2}{21 \times 2}$$

$$\frac{3}{42} + \frac{4}{42}$$

$$= \frac{3+4}{42}$$

$$= \frac{7}{42}$$

Row

$$2 \mid 8, 32$$

$$2 \mid 4, 16$$

$$2 \mid 2, 8$$

$$2 \mid 1, 4$$

$$2 \mid 1, 2$$

$$1 \mid 1$$

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

$$= 32$$

Row

$$2 \mid 14, 21$$

$$3 \mid 7, 21$$

$$7 \mid 7, 7$$

$$1 \mid 1$$

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

$$= 42$$

$$Q9: \frac{3}{20} + \frac{4}{30}$$

$$\frac{3 \times 3}{20 \times 3} + \frac{4 \times 2}{30 \times 2}$$

$$\frac{9}{60} + \frac{8}{60}$$

$$= \frac{9+8}{60} = \frac{17}{60}$$

~~Row~~ Row

$$2 \mid 20, 30$$

$$2 \mid 10, 15$$

$$3 \mid 5, 15$$

$$5 \mid 5, 5$$

1, 1

$$LCM = 2 \times 2 \times 3 \times 5 = 60$$

$$Q10: \frac{1}{2} - \frac{1}{3}$$

$$\frac{1 \times 3}{2 \times 3} - \frac{1 \times 2}{3 \times 2}$$

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

$$= \frac{1}{6}$$

~~Row~~ Row

$$2 \mid 2, 3$$

$$3 \mid 1, 3$$

1, 1

$$LCM = 2 \times 3$$

$$= 6$$

Q11