

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Fractions (Recapitulation)

Q1. Simplify  $\frac{1}{2} + \frac{3}{4} - \frac{1}{6}$

Q2. A rectangular plot is  $3\frac{1}{2}$  m long and  $4\frac{3}{4}$  m wide. Find the perimeter.

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$$\frac{1}{2} + \frac{3}{4} - \frac{1}{6}$$

LCM of 2,4 and 6

2	2, 4, 6
2	1, 2, 3
3	1, 1, 3
	1, 1, 1

$$\text{LCM} = 2 \times 2 \times 3 = 12$$

Now, convert the given fractions into equivalent fractions with denominator 12.

$$\frac{1}{2} = \frac{1 \times 6}{2 \times 6} = \frac{6}{12}$$

$$\frac{3}{4} = \frac{3 \times 3}{4 \times 3} = \frac{9}{12}$$

$$\frac{1}{6} = \frac{1 \times 2}{6 \times 2} = \frac{2}{12}$$

$$\frac{6}{12} + \frac{9}{12} - \frac{2}{12} = \frac{6+9-2}{12} = \frac{15-2}{12} = \frac{13}{12}$$

Q2. A rectangular plot is  $3\frac{1}{2}$  m long and  $4\frac{3}{4}$  m wide. Find the perimeter.

$$\text{Perimeter} = 2(l+b)$$

$$= 2\left(3\frac{1}{2} + 4\frac{3}{4}\right)$$

$$= 2\left(\frac{7}{2} + \frac{19}{4}\right)$$

$$= 2\left(\frac{14+19}{4}\right) \text{ (LCM = 4)}$$

$$= 2\left(\frac{33}{4}\right) = \frac{33}{2} = 16\frac{1}{2}$$