

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

Adding or Subtracting Unlike Fractions

Q1. Solve.  $\frac{2}{3} + \frac{1}{5}$

Sol.

Q2. Fill in the missing fractions.

$$\frac{1}{2} - \boxed{\phantom{00}} = \frac{1}{6}$$

Sol.

## Answers

### Adding or Subtracting Unlike Fractions

Q1. Solve.  $\frac{2}{3} + \frac{1}{5}$

Sol. LCM (least common multiple) of the denominators 3 and 5

3	3, 5
5	1, 5
	1, 1

$$\text{LCM} = 3 \times 5 = 15$$

Now, we convert the given fractions to equivalent fractions with denominator 15.

$$\text{We have, } \frac{2}{3} = \frac{2 \times 5}{3 \times 5} = \frac{10}{15} ; \frac{1}{5} = \frac{1 \times 3}{5 \times 3} = \frac{3}{15}$$

$$\frac{10}{15} + \frac{3}{15} \quad (\text{Add the numerators and write over the same denominator})$$

$$= \frac{10+3}{15} = \frac{13}{15}$$

Q2. Fill in the missing fractions.

$$\frac{1}{2} - \boxed{\phantom{00}} = \frac{1}{6}$$

Sol. Missing Fraction =  $\frac{1}{2} - \frac{1}{6}$

$$\frac{1}{2} = \frac{1 \times 3}{2 \times 3} = \frac{3}{6} ; \frac{1}{6} = \frac{1 \times 1}{6 \times 1} = \frac{1}{6} \quad (\text{LCM of 2 and 6} = 6)$$

$$= \frac{3}{6} - \frac{1}{6} = \frac{2}{6}$$

$$= \frac{2 \div 2}{6 \div 2} = \frac{1}{3}$$