



## Concept\_CW\_G8\_Addition and Subtraction of Rational Numbers

### 1. Find the sum:

(i)  $\frac{4}{3} + \frac{3}{5} + -\frac{2}{3} + -\frac{11}{5}$

(ii)  $-\frac{8}{3} + -\frac{1}{4} + -\frac{11}{6} + \frac{3}{8}$

(iii)  $-\frac{13}{20} + \frac{11}{14} + -\frac{5}{7} + \frac{7}{10}$

(iv)  $-\frac{6}{7} + -\frac{5}{6} + -\frac{4}{9} + -\frac{15}{7}$

### 2. Simplify the expressions:

(i)  $-\frac{3}{2} + \frac{5}{4} - \frac{7}{4}$

(ii)  $\frac{5}{3} - \frac{7}{6} + (-\frac{2}{3})$

(iii)  $\frac{5}{4} - \frac{7}{6} - (-\frac{2}{3})$

(iv)  $-\frac{2}{5} - (-\frac{3}{10}) - (-\frac{4}{7})$

(v)  $\frac{5}{6} + (-\frac{2}{5}) - (-\frac{2}{10})$

(vi)  $\frac{3}{8} - (-\frac{2}{9}) + (-\frac{5}{36})$

### 3. What should be added to $(\frac{2}{3} + \frac{3}{5})$ to get $-\frac{2}{15}$ ?

4. What should be added to  $(\frac{1}{2} + \frac{1}{3} + \frac{1}{5})$  to get 3?

5. What should be subtracted from  $(\frac{3}{4} - \frac{2}{3})$  to get  $-\frac{1}{6}$ ?