Adding and subtracting fractions

1. Work out $\frac{1}{3} + \frac{1}{6}$.
Give your answer in its simplest form.

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

(2 marks)

2. Calculate $\frac{1}{4} + \frac{2}{5}$.
Give your answer in its simplest form.

$$\frac{5}{20} + \frac{8}{20} = \frac{13}{20}$$

(2 marks)

3. Calculate $\frac{9}{10} - \frac{1}{2}$.
Give your answer as a simplified fraction.

$$\frac{9}{10} - \frac{5}{10} = \frac{4}{10} = \frac{2}{5}$$

(2 marks)

Adding and subtracting fractions

4. Work out $\frac{6}{7} - \frac{2}{3}$.

Give your answer in its simplest form.

$$\frac{18}{21} - \frac{14}{21} = \frac{4}{21}$$

(2 marks)

5. Work out $\frac{5}{6} + \frac{4}{5}$.

Give your answer as a mixed number.

$$\frac{25}{30} + \frac{24}{30} = \frac{49}{30} = 1\frac{19}{30}$$

(3 marks)

6. Calculate $\frac{7}{12} - \frac{3}{7}$, .

Give your answer as a simplified fraction.

$$\frac{49}{84} - \frac{36}{84} = \frac{13}{84}$$

(2 marks)

Adding and subtracting fractions

7. Work out $2\frac{1}{3} + 1\frac{1}{2}$.
Give your answer as a fraction in its simplest form.

$$\frac{7}{3} + \frac{3}{2} = \frac{14}{6} + \frac{9}{6} = \frac{23}{6} = 3\frac{5}{6}$$

(3 marks)

8. Calculate $3\frac{1}{4} - 1\frac{2}{5}$.
Give your answer as a mixed number in its simplest form.

$$\frac{13}{4} - \frac{7}{5} = \frac{65}{20} - \frac{28}{20} = \frac{37}{20} = 1\frac{17}{20}$$

(3 marks)

9. Work out $5\frac{3}{7} + 2\frac{3}{4}$.
Give your answer as a simplified mixed number.

$$\frac{38}{7} + \frac{11}{4} = \frac{152}{28} + \frac{77}{28} = \frac{229}{28} = 8\frac{5}{28}$$

(3 marks)

Adding and subtracting fractions

10. Work out $1\frac{1}{5} + \frac{3}{8} - \frac{1}{3}$.
Give your answer in its simplest form.

$$\frac{6}{5} + \frac{3}{8} - \frac{1}{3} = \frac{144}{120} + \frac{45}{120} - \frac{40}{120} = \frac{149}{120} = 1\frac{29}{120}$$

(3 marks)

11. There is dark, milk and white chocolates in a bag.
$\frac{3}{7}$ are milk chocolate.
$\frac{1}{4}$ are dark chocolate.
The rest of the chocolates are white chocolate.
What fraction are white chocolate?

$$\frac{3}{7} + \frac{1}{4} = \frac{12}{28} + \frac{7}{28} = \frac{19}{28}$$

$$1 - \frac{19}{28} = \frac{9}{28} \; white$$

(3 marks)