

## Working with Mixed Numbers

Convert into improper fractions:

- (a)  $2\frac{1}{2}$  (b)  $3\frac{4}{7}$  (c)  $5\frac{1}{6}$   
(d)  $4\frac{2}{13}$  (e)  $7\frac{7}{10}$  (f)  $2\frac{5}{9}$

(a)  $\frac{5}{2}$  (b)  $\frac{25}{7}$  (c)  $\frac{31}{6}$

(d)  $\frac{54}{13}$  (e)  $\frac{77}{10}$  (f)  $\frac{23}{9}$

Convert into mixed numbers:

- (a)  $\frac{8}{3}$  (b)  $\frac{25}{4}$  (c)  $\frac{31}{6}$   
(d)  $\frac{18}{7}$  (e)  $\frac{92}{9}$  (f)  $\frac{59}{11}$

(a)  $2\frac{2}{3}$  (b)  $6\frac{1}{4}$  (c)  $5\frac{1}{6}$

(d)  $2\frac{4}{7}$  (e)  $10\frac{2}{9}$  (f)  $5\frac{4}{11}$

Calculate, giving your answers in their simplest form:

- (a)  $1\frac{2}{3} \times 2\frac{1}{5}$  (b)  $2\frac{3}{5} \times 1\frac{5}{6}$   
(c)  $3\frac{1}{2} \times \frac{2}{5}$  (d)  $2\frac{1}{4} \times 3\frac{3}{10}$   
(e)  $\frac{1}{8} \div 1\frac{1}{2}$  (f)  $2\frac{1}{4} \div \frac{1}{2}$   
(g)  $3\frac{2}{5} \div 1\frac{3}{4}$  (h)  $2\frac{5}{6} \div 1\frac{2}{3}$

(a)  $3\frac{2}{3}$  (b)  $4\frac{23}{30}$

(c)  $1\frac{2}{5}$  (d)  $7\frac{17}{40}$

(e)  $\frac{1}{12}$  (f)  $4\frac{1}{2}$

(g)  $1\frac{33}{35}$  (h)  $1\frac{7}{10}$

Calculate, giving your answers in their simplest form:

- (a)  $1\frac{3}{5} + \frac{2}{5}$  (b)  $2\frac{6}{7} + 2\frac{1}{7}$   
(c)  $5\frac{2}{3} - 2\frac{1}{6}$  (d)  $4\frac{1}{4} - \frac{5}{6}$   
(e)  $2\frac{3}{7} + 3\frac{1}{4}$  (f)  $5\frac{2}{3} - 1\frac{4}{7}$   
(g)  $2\frac{10}{11} + \frac{1}{2}$  (h)  $6\frac{2}{5} - 2\frac{5}{6}$   
(i)  $5\frac{1}{2} - 4\frac{1}{3}$  (j)  $4\frac{2}{3} + 2\frac{1}{5}$

(a) 2 (b) 5

(c)  $3\frac{1}{2}$  (d)  $3\frac{5}{12}$

(e)  $5\frac{19}{28}$  (f)  $4\frac{2}{21}$

(g)  $3\frac{9}{22}$  (h)  $3\frac{17}{30}$

(i)  $1\frac{1}{6}$  (j)  $6\frac{13}{15}$

A machine takes  $2\frac{3}{5}$  minutes to make a microchip. How long will it take to produce 20 microchips?

52 minutes

Calculate the area and perimeter of a rectangle of length  $4\frac{2}{5}$  cm and width  $2\frac{1}{4}$  cm.

Area =  $9\frac{9}{10}$  cm<sup>2</sup>

Perimeter =  $13\frac{3}{10}$  cm