**1** Complete the subtractions.
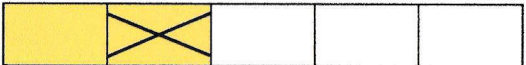
Use the bar models to help you.

a) 
$$\frac{2}{3} - \frac{1}{3} = \boxed{\frac{1}{3}}$$

b) 
$$\frac{2}{5} - \frac{1}{5} = \boxed{\frac{1}{5}}$$

c) 
$$\frac{3}{5} - \frac{1}{5} = \boxed{\frac{2}{5}}$$

d) 
$$\frac{4}{5} - \frac{1}{5} = \boxed{\frac{3}{5}}$$

**2** Jack has $\frac{7}{8}$ of a chocolate bar.

He eats $\frac{4}{8}$ of the chocolate bar.

What fraction of the chocolate bar does he have left?

Jack has $\boxed{\frac{3}{8}}$ of the chocolate bar left.

**3** Complete the subtractions.

a) $\frac{7}{10} - \frac{1}{10} = \boxed{\frac{6}{10}}$

b) $\frac{7}{10} - \frac{2}{10} = \boxed{\frac{5}{10}}$

c) $\frac{7}{10} - \frac{3}{10} = \boxed{\frac{4}{10}}$
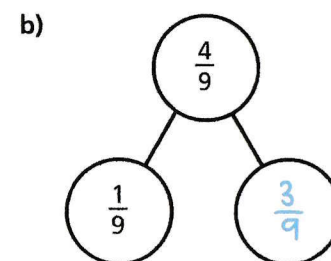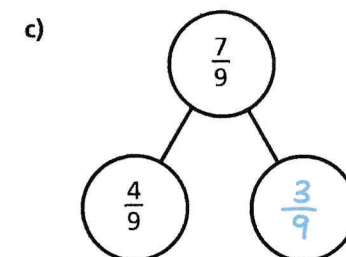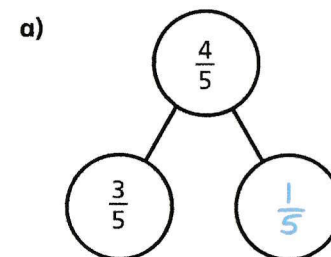
d) $\frac{7}{12} - \frac{3}{12} = \boxed{\frac{4}{12}}$

e) $\frac{8}{12} - \frac{4}{12} = \boxed{\frac{4}{12}}$

f) $\frac{9}{12} - \frac{5}{12} = \boxed{\frac{4}{12}}$
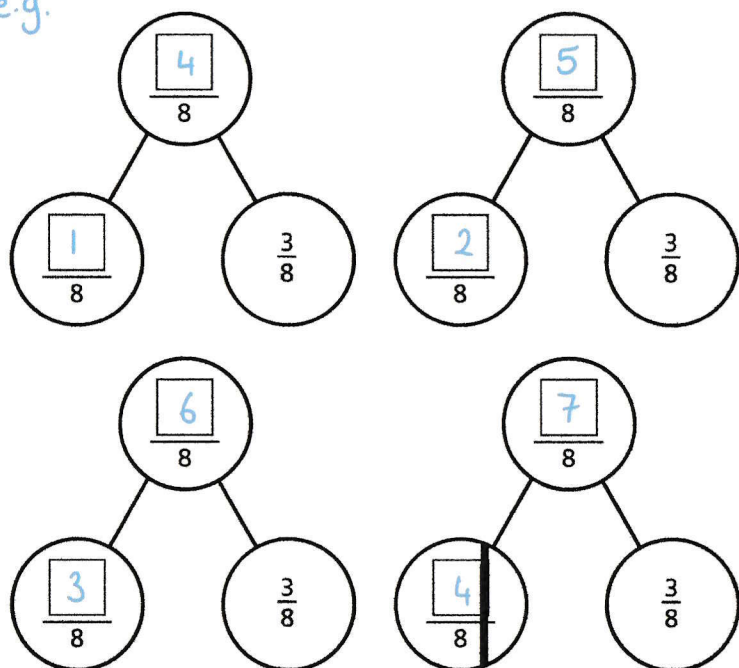
g) $\frac{9}{59} - \frac{5}{59} = \boxed{\frac{4}{59}}$

h) $\frac{13}{127} - \frac{9}{127} = \boxed{\frac{4}{127}}$

**4** Complete the part-whole models.

a)
- $\frac{4}{5}$
  - $\frac{3}{5}$
  - $\frac{1}{5}$

b)
- $\frac{4}{9}$
  - $\frac{1}{9}$
  - $\frac{3}{9}$

c)
- $\frac{7}{9}$
  - $\frac{4}{9}$
  - $\frac{3}{9}$

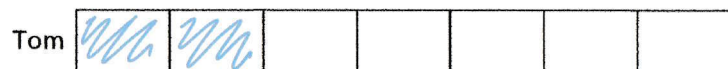**5** Complete the part-whole model in four different ways.

e.g.



**6** Kim has read $\frac{6}{7}$ of her book.

Tom has read $\frac{2}{7}$ of his book.

**a)** Shade the bar models to represent this information.

Kim

Tom

**b)** How much more has Kim read than Tom?

Kim has read $\boxed{\frac{4}{7}}$ more of her book than Tom.

**7** Write the missing numerators.

a) $\frac{8}{9} - \frac{\boxed{1}}{9} = \frac{7}{9}$

e) $\frac{7}{10} - \frac{5}{10} = \frac{1}{10} + \frac{\boxed{1}}{10}$

b) $\frac{5}{11} - \frac{\boxed{1}}{11} = \frac{4}{11}$

f) $\frac{\boxed{3}}{4} - \frac{1}{4} = \frac{1}{4} + \frac{1}{4}$

c) $\frac{8}{9} - \frac{\boxed{1}}{9} = \frac{3}{9} + \frac{4}{9}$

g) $\frac{\boxed{5}}{5} - \frac{2}{5} = \frac{1}{5} + \frac{2}{5}$

d) $\frac{7}{9} - \frac{5}{9} = \frac{\boxed{6}}{9} - \frac{4}{9}$

h) $\frac{4}{5} + \frac{1}{5} = \frac{3}{7} - \frac{2}{7} + \frac{\boxed{6}}{7}$