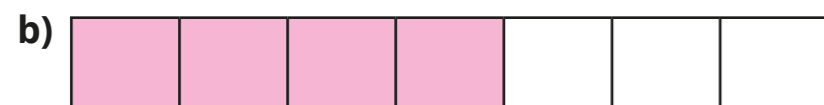## Partition the whole

**1** Complete the sentences to describe the bar models.

**a)**



$\frac{2}{5}$ of the bar model is shaded.

☐ of the bar model is not shaded.

As a fraction, the whole is ☐

**b)**



☐ of the bar model is shaded.

☐ of the bar model is not shaded.
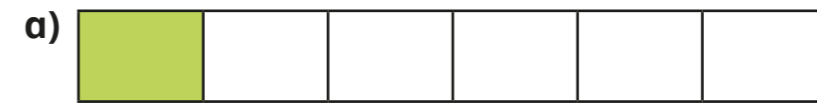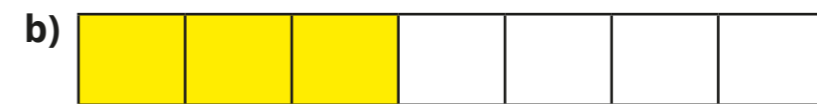
As a fraction, the whole is ☐

**c)**



☐ of the bar model is shaded.

☐ of the bar model is not shaded.

As a fraction, the whole is ☐

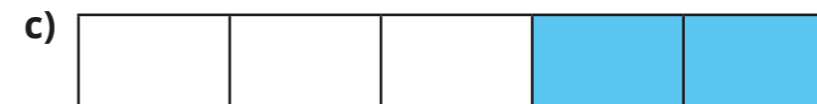**2** Complete the calculations to match the bar models.

**a)**



$\frac{1}{6} + \boxed{\phantom{x}} = \frac{6}{6}$          $\frac{1}{6} + \boxed{\phantom{x}} = 1$

**b)**



$\frac{3}{7} + \boxed{\phantom{x}} = \frac{7}{7}$          $\frac{3}{7} + \boxed{\phantom{x}} = 1$

**c)**



$\boxed{\phantom{x}} + \frac{2}{5} = \frac{5}{5}$          $\boxed{\phantom{x}} + \frac{2}{5} = 1$

**d)**



$\frac{2}{8} + \boxed{\phantom{x}} + \boxed{\phantom{x}} = \frac{8}{8}$          $\frac{2}{8} + \boxed{\phantom{x}} + \boxed{\phantom{x}} = 1$

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

**a)**
$\frac{9}{9}$ → $\frac{2}{9}$ , ◯

**c)**
$1$ → ◯ , $\frac{7}{10}$

**b)**
$\frac{3}{3}$ → $\frac{2}{3}$ , ◯

**d)**
$1$ → ◯ , $\frac{1}{20}$
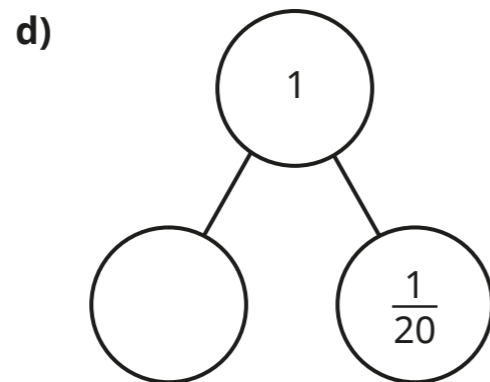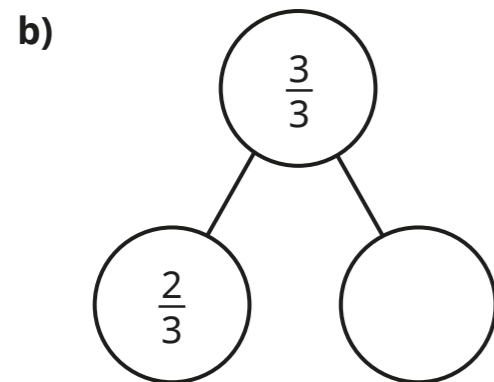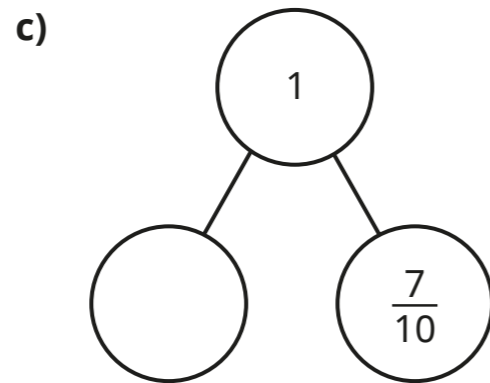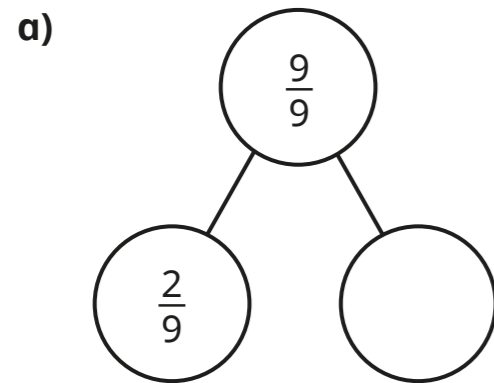
**4** Complete the number sentences.

**a)** $\frac{1}{5} + \boxed{\phantom{x}} = 1$

**e)** $1 = \frac{3}{10} + \boxed{\phantom{x}}$

**b)** $\frac{4}{7} + \boxed{\phantom{x}} = 1$

**f)** $\frac{47}{100} + \boxed{\phantom{x}} = 1$

**c)** $\boxed{\phantom{x}} + \frac{3}{8} = 1$

**g)** $\frac{1}{7} + \boxed{\phantom{x}} + \frac{2}{7} = 1$

**d)** $1 = \frac{8}{9} + \boxed{\phantom{x}}$

**h)** $\frac{4}{9} + \boxed{\phantom{x}} + \boxed{\phantom{x}} = 1$

**5** Max and Sam share a box of stickers.

Max gets $\frac{1}{4}$ of the stickers.

What fraction of the stickers does Sam get?

**6** Ron has a bar of chocolate.

He eats $\frac{3}{8}$ of the bar.

What fraction of the bar of chocolate is left?

**7** Some marbles are shared between three boxes.

$\frac{7}{25}$ of the marbles are in the first box.

$\frac{9}{25}$ of the marbles are in the second box.

The second and third boxes have the same number of marbles.

Do you agree with Jo? _____

Show your workings.

White Rose MATHS