

# Equivalent fractions

1 a) Complete the equivalent fractions to match each diagram.



$$\frac{1}{2} = \frac{\boxed{\phantom{000}}}{8}$$



$$\frac{1}{2} = \frac{3}{\boxed{\phantom{000}}}$$



$$\frac{1}{2} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$

b) Draw lines on each diagram to show different fractions equivalent to  $\frac{2}{3}$ .



$$\frac{2}{3} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$

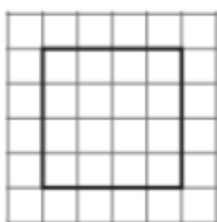


$$\frac{2}{3} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$

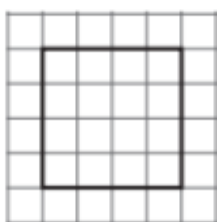


$$\frac{2}{3} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$

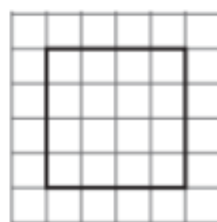
c) Shade the diagrams to match each fraction.



$$\frac{1}{4}$$

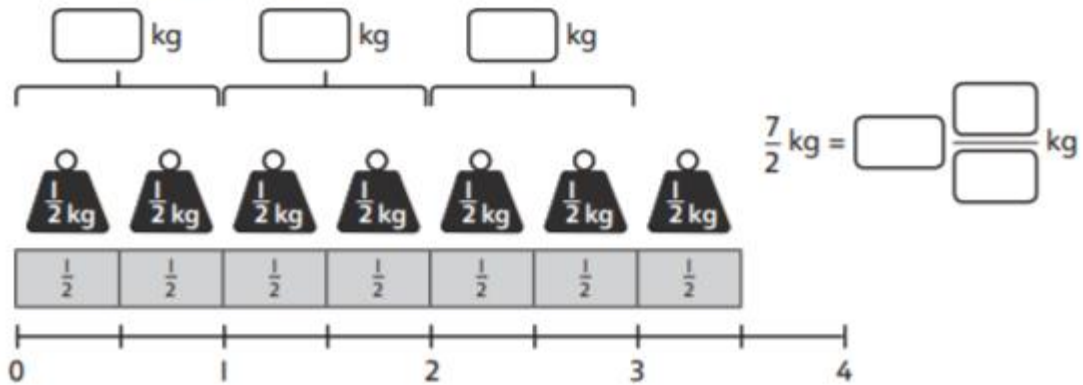


$$\frac{2}{8}$$

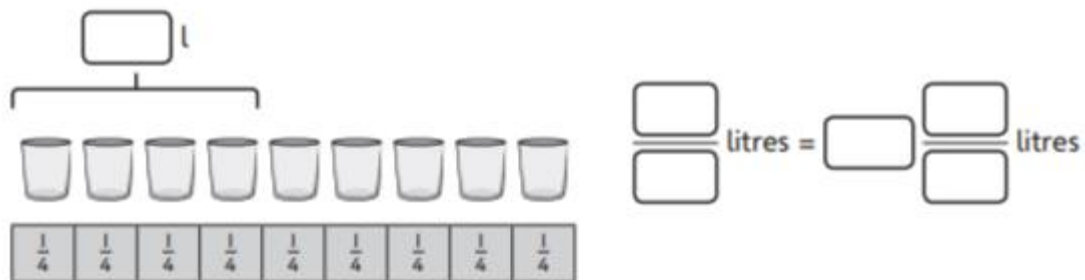


$$\frac{3}{12}$$

- 1** a) Each weight has a mass of  $\frac{1}{2}$  kg. Write the total mass of the weights as a mixed number.



- b) Each glass holds  $\frac{1}{4}$  litre of juice. Write the total volume of juice as a mixed number.



- c) Aki has  $\frac{11}{3}$  metres of ribbon. Write this as a mixed number.



Convert these improper fractions to mixed numbers.

a)  $\frac{13}{3} = \text{input} \frac{\text{input}}{\text{input}}$

d)  $\frac{14}{5} = \text{input} \frac{\text{input}}{\text{input}}$

b)  $\frac{13}{4} = \text{input} \frac{\text{input}}{\text{input}}$

e)  $\frac{15}{5} = \text{input}$

c)  $\frac{13}{5} = \text{input} \frac{\text{input}}{\text{input}}$

f)  $\frac{16}{5} = \text{input} \frac{\text{input}}{\text{input}}$

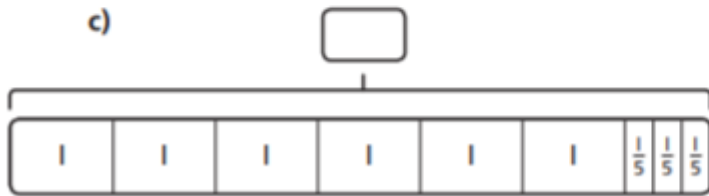
**I** Convert the mixed numbers into improper fractions.



$$5\frac{1}{3} = \frac{\boxed{\phantom{000}}}{3}$$



$$4\frac{3}{4} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$



$$\boxed{\phantom{000}} \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$