Divide fractions by integers (1)

1 Use the diagrams to help complete the calculations.
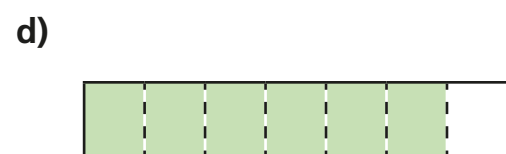
a)

$\frac{4}{5} \div 4 = \boxed{}$

b)

$\frac{3}{5} \div 3 = \boxed{}$

c)

$\frac{6}{7} \div 2 = \boxed{}$

d)

$\frac{6}{7} \div 3 = \boxed{}$
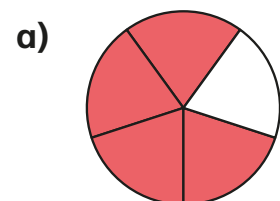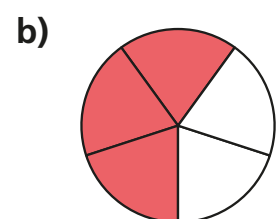
2 Huan shares $\frac{8}{10}$ of a litre of juice equally between 4 glasses.
How much juice is in each glass?

$\boxed{}$

3 Complete the divisions.

a) $\boxed{} = \frac{4}{5} \div 2$

b) $\frac{12}{25} \div \boxed{} = \frac{4}{25}$

$\boxed{} = \frac{4}{10} \div 4$

$\frac{12}{25} \div \boxed{} = \frac{3}{25}$

$\boxed{} = \frac{4}{20} \div 4$

$\frac{12}{25} \div \boxed{} = \frac{2}{25}$

$\boxed{} = \frac{2}{10} \div 2$

$\frac{\boxed{}}{25} \div 6 = \frac{4}{25}$

4 Calculate the weights.

a)

$\boxed{}$
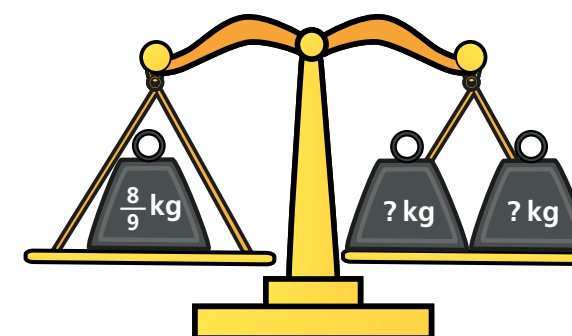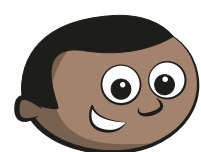
b)

$\boxed{}$
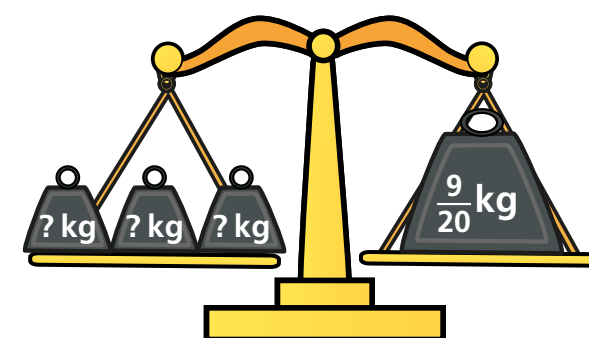
5 Mo works out $\frac{10}{25} \div 5$

"The answer is $\frac{2}{5}$"

a) What mistake has Mo made?

_____

_____

b) Draw diagrams to show why Mo is wrong.

Talk about your answer with a partner.

6 Complete the calculations. Give your answers in their simplest form.

a) $\frac{4}{10} \div 2 = \frac{\boxed{}}{10} = \frac{\boxed{}}{5}$

d) $\frac{18}{45} \div 2 = \boxed{} = \boxed{}$

b) $\frac{10}{15} \div 2 = \frac{\boxed{}}{15} = \boxed{}$

e) $\frac{24}{56} \div 3 = \boxed{} = \boxed{}$

c) $\frac{20}{45} \div 4 = \boxed{} = \boxed{}$

f) $\boxed{} = \boxed{} = \frac{21}{56} \div 3$

7 **a)** Complete the calculation.

$$\frac{6}{8} \div \boxed{} = \frac{1}{4}$$

b) Find the missing numbers to make this division correct.

$$\frac{24}{\boxed{}} \div \boxed{} = \frac{1}{20}$$

8 ♥ is a whole number.

◯ is a fraction.

$$\frac{10}{♥} \div 2 = \frac{1}{2} \times ◯$$

a) Find values for ♥ and ◯.

♥ = $\boxed{}$ ◯ = $\boxed{}$

b) What do you notice? Explain using diagrams or words.