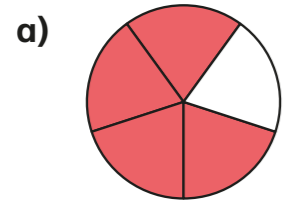


Divide fractions by integers (1)

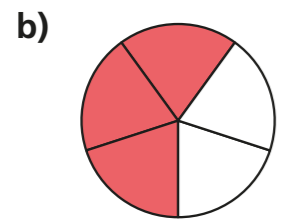
1 Use the diagrams to help complete the calculations.



$$\frac{4}{5} \div 4 = \frac{1}{5}$$



$$\frac{6}{7} \div 2 = \frac{3}{7}$$

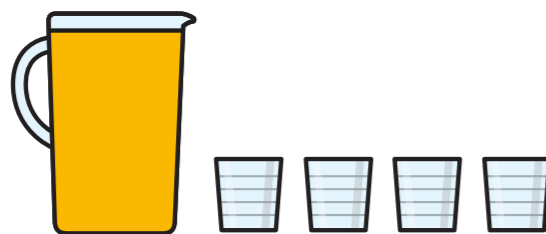


$$\frac{3}{5} \div 3 = \frac{1}{5}$$



$$\frac{6}{7} \div 3 = \frac{2}{7}$$

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



$$\frac{1}{5}$$

3 Complete the divisions.

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

b) $\frac{12}{25} \div \boxed{3} = \frac{4}{25}$

$$\frac{1}{10} = \frac{4}{10} \div 4$$

$$\frac{12}{25} \div \boxed{4} = \frac{3}{25}$$

$$\frac{1}{20} = \frac{4}{20} \div 4$$

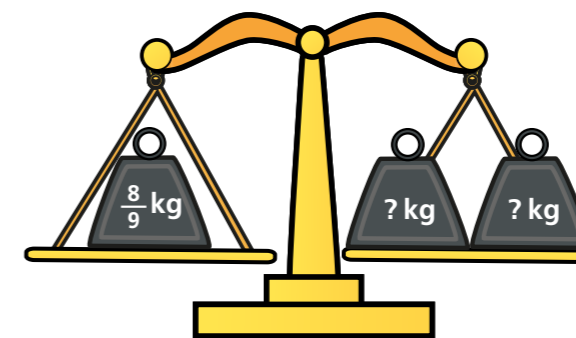
$$\frac{12}{25} \div \boxed{6} = \frac{2}{25}$$

$$\frac{1}{10} = \frac{2}{10} \div 2$$

$$\frac{\boxed{24}}{25} \div 6 = \frac{4}{25}$$

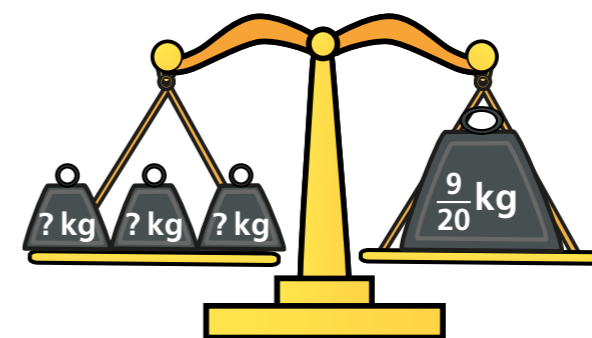
4 Calculate the weights.

a)



$$\frac{4}{9}$$

b)



$$\frac{3}{20}$$

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

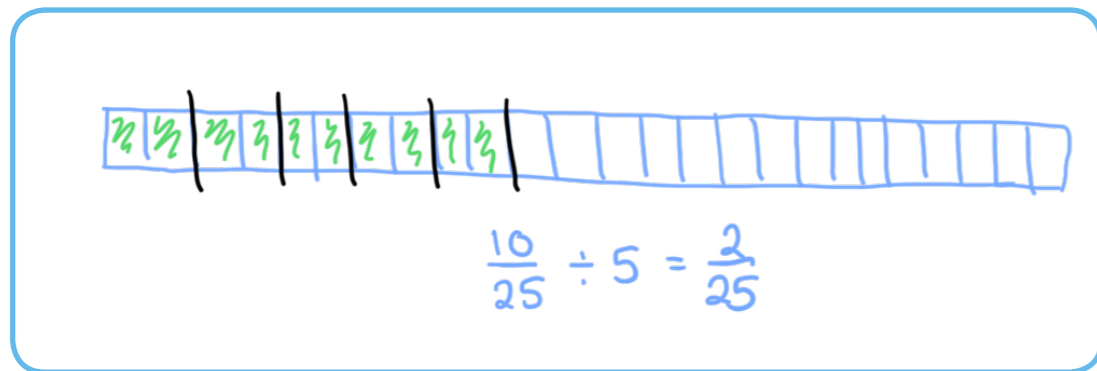


The answer is $\frac{2}{5}$

a) What mistake has Mo made?

He had divided the denominator.

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) $\frac{4}{10} \div 2 = \frac{2}{10} = \frac{1}{5}$

d) $\frac{18}{45} \div 2 = \frac{9}{45} = \frac{1}{5}$

b) $\frac{10}{15} \div 2 = \frac{5}{15} = \frac{1}{3}$

e) $\frac{24}{56} \div 3 = \frac{8}{56} = \frac{1}{7}$

c) $\frac{20}{45} \div 4 = \frac{5}{45} = \frac{1}{9}$

f) $\frac{1}{8} = \frac{7}{56} = \frac{21}{56} \div 3$

7 a) Complete the calculation.

$$\frac{6}{8} \div \boxed{3} = \frac{1}{4}$$

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

E.g. $\frac{24}{\boxed{20}} \div \boxed{24} = \frac{1}{20}$

8 is a whole number.

is a fraction.

$$\frac{10}{\text{heart}} \div 2 = \frac{1}{2} \times \text{circle}$$

a) Find values for and .

e.g. = $\boxed{50}$

= $\boxed{\frac{1}{5}}$

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

