

Divide fractions by integers (1)

- 1 Use the diagrams to help complete the calculations.



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



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



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



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

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

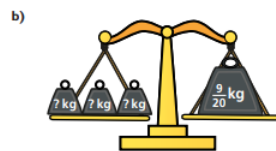


- 3 Complete the divisions.

a) $\frac{4}{5} \div 2 = \frac{4}{10} \div 4 = \frac{4}{20} \div 4 = \frac{2}{10} \div 2$

b) $\frac{12}{25} \div \square = \frac{4}{25} \quad \frac{12}{25} \div \square = \frac{3}{25} \quad \frac{12}{25} \div \square = \frac{2}{25} \quad \frac{\square}{25} \div 6 = \frac{4}{25}$

- 4 Calculate the weights.



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

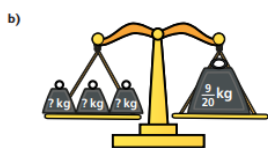
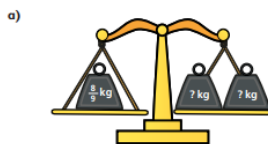


- a) What mistake has Mo made?
b) Draw diagrams to show why Mo is wrong.

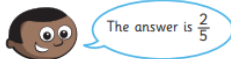
Talk about your answer with a partner.

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



- 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) $\frac{4}{10} \div 2 = \frac{\square}{10} = \frac{\square}{5}$ d) $\frac{18}{45} \div 2$

b) $\frac{10}{15} \div 2 = \frac{\square}{15}$ e) $\frac{24}{56} \div 3$

c) $\frac{20}{45} \div 4$ f) $\frac{21}{56} \div 3$

- 7 a) Complete the calculation.

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

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

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

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