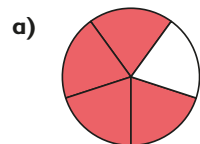


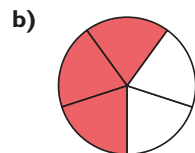
1 Use the diagrams to help complete the calculations.



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



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



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



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

DD: Maths Story: Write a maths story about one problem above.

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



DD: Another way: Record your solution as a fraction of a litre, and in ml.

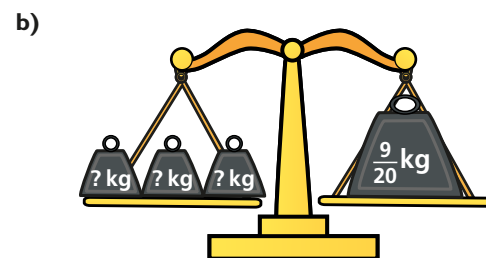
3 Complete the divisions.

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

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

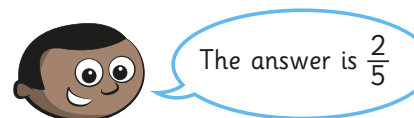
DD: Explain it: What happens to the numerator? What happens to the denominator? Why do you think this is?

4 Calculate the weights.



DD: Draw it: Create a bar model showing the equivalence between the fractions above.

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



a) What mistake has Mo made?

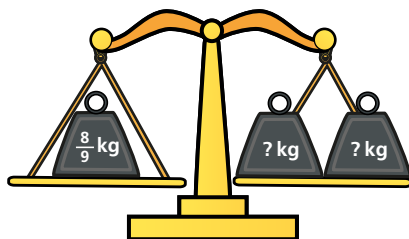
b) Draw diagrams to show why Mo is wrong.

Talk about your answer with a partner.

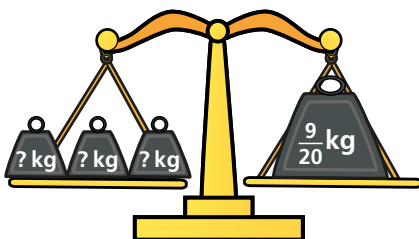


- 4 Calculate the weights.

a)



b)



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

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) $\frac{21}{56} \div 3$


DD: Explain it: What pattern do you notice between the numerator and the integer in the problems above? How does this help you solve the calculation?


- 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.