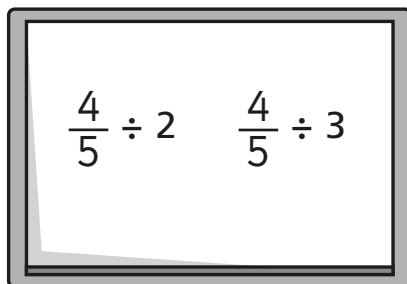


1



- Write two things that are the same about the calculations.
- Write one thing that is different about the calculations.
- Draw a diagram to help you work out the answer to  $\frac{4}{5} \div 2$
- Draw a diagram to help you work out the answer to  $\frac{4}{5} \div 3$

DD: Explain it: Would you use the same strategy to solve a) and b)? Why? Why not?

2

Complete the divisions using the diagrams to help you.

a)  $\frac{1}{3} \div 2$  

b)  $\frac{1}{3} \div 3$  

c)  $\frac{2}{3} \div 3$  

DD: Draw it: Represent the problems above using a numberline.

3

$\frac{3}{4}$  of a kilogram of rice is divided equally between two bowls.



How much rice is in each bowl?

4

Work out the divisions.

- |                         |                          |                            |                            |
|-------------------------|--------------------------|----------------------------|----------------------------|
| a) $\frac{1}{5} \div 7$ | d) $\frac{1}{7} \div 6$  | g) $\frac{8}{3} \div 7$    | j) $\frac{45}{50} \div 20$ |
| b) $\frac{1}{6} \div 3$ | e) $\frac{4}{9} \div 7$  | h) $\frac{19}{20} \div 5$  |                            |
| c) $\frac{1}{4} \div 9$ | f) $\frac{5}{6} \div 12$ | i) $\frac{1}{100} \div 25$ |                            |

DD: And Another: Write 3 of your own calculations which would be easiest to solve by changing the denominator.

5

Write  $<$ ,  $>$  or  $=$  to complete each statement.

a)  $\frac{1}{3} \div 5$    $\frac{1}{5} \div 3$

b)  $\frac{1}{3} \div 3$    $\frac{1}{5} \div 5$

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

- 3  $\frac{3}{4}$  of a kilogram of rice is divided equally between two bowls.



How much rice is in each bowl?

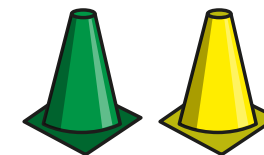
- 4 Work out the divisions.

- a)  $\frac{1}{5} \div 7$       d)  $\frac{1}{7} \div 6$       g)  $\frac{8}{3} \div 7$       j)  $\frac{45}{50} \div 20$   
 b)  $\frac{1}{6} \div 3$       e)  $\frac{4}{9} \div 7$       h)  $\frac{19}{20} \div 5$   
 c)  $\frac{1}{4} \div 9$       f)  $\frac{5}{6} \div 12$       i)  $\frac{1}{100} \div 25$

- 5 Write  $<$ ,  $>$  or  $=$  to complete each statement.

- a)  $\frac{1}{3} \div 5$    $\frac{1}{5} \div 3$   
 b)  $\frac{1}{3} \div 3$    $\frac{1}{5} \div 5$   
 c)  $\frac{3}{5} \div 5$    $\frac{3}{5} \div 3$

- 6 There are some cones in the PE shed.  
Classes 1, 2 and 3 share them equally.



- Class 1 put theirs into 4 equal piles.
- Class 2 put theirs into 5 equal piles.
- Class 3 put theirs into 11 equal piles.

What fraction of the whole number of cones is in each pile?

- 7 a) Which of these statements are true?

$$\frac{1}{2} \div 2 \text{ is equal to } \frac{1}{2} \times \frac{1}{2}$$

$$\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4}$$

$$\frac{1}{2} \div 3 = \frac{1}{2} \times \frac{1}{3}$$

$$\frac{1}{2} \div 5 = \frac{1}{2} \times \frac{1}{5}$$

- b) What do you notice?

Is it only true for halves?

Does it work for non-unit fractions?

Talk to a partner.