Divide fractions by integers (2)

1

$\frac{4}{5} \div 2$ $\frac{4}{5} \div 3$

a) Write two things that are the same about the calculations.

_____

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_____

b) Write one thing that is different about the calculations.

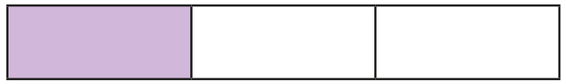
_____

c) Draw a diagram to help you work out the answer to $\frac{4}{5} \div 2$

d) Draw a diagram to help you work out the answer to $\frac{4}{5} \div 3$

2 Complete the divisions using the diagrams to help you.

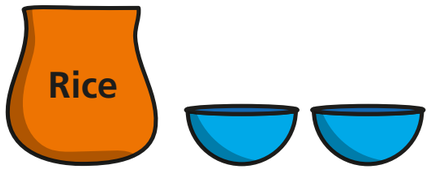
a) $\frac{1}{3} \div 2 =$ ☐



b) $\frac{1}{3} \div 3 =$ ☐

c) $\frac{2}{3} \div 3 =$ ☐

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



How much rice is in each bowl?

☐

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4 Work out the divisions.

a) $\frac{1}{5} \div 7 = \square$

b) $\square = \frac{1}{6} \div 3$

c) $\frac{1}{4} \div 9 = \square$

d) $\square = \frac{1}{7} \div 6$

e) $\frac{4}{9} \div 7 = \square$

f) $\square = \frac{5}{6} \div 12$

g) $\frac{8}{3} \div 7 = \square$

h) $\square = \frac{19}{20} \div 5$

i) $\frac{1}{100} \div 25 = \square$

j) $\square = \frac{45}{50} \div 20$

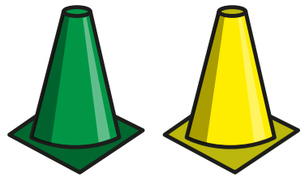
5 Write <, > or = to complete each statement.

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

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

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

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?

	Fraction in each pile
Class 1	
Class 2	
Class 3	

7 **a)** Which of these statements are true? Tick your answers.

$\frac{1}{2} \div 2$ *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.

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