

Fractions to decimals (2)

1 Fractions can be expressed as divisions.

For example, $\frac{1}{2} = 1 \div 2$

Write the fractions as divisions.

a) $\frac{1}{3} = \boxed{1} \div \boxed{3}$

d) $\frac{\boxed{3}}{\boxed{5}} = 3 \div 5$

b) $\frac{2}{3} = \boxed{2} \div \boxed{3}$

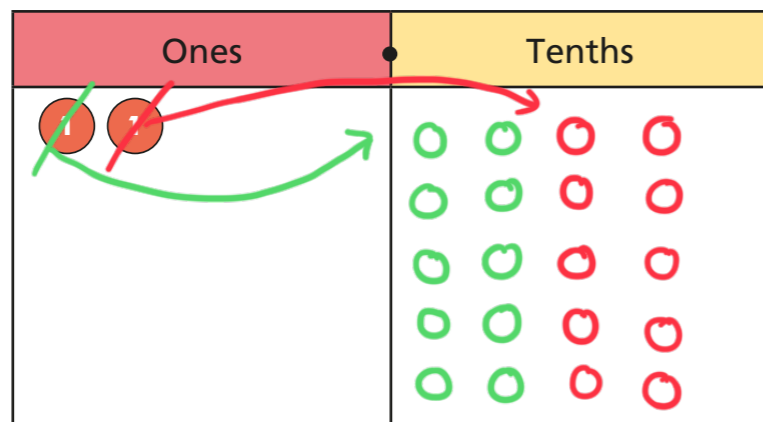
e) $\frac{\boxed{3}}{\boxed{7}} = 3 \div \boxed{7}$

c) $\frac{4}{7} = \boxed{4} \div \boxed{7}$

f) $\frac{1}{10} = \boxed{1} \div \boxed{10}$

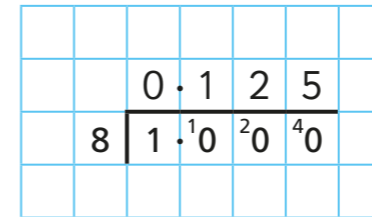
2 Use place value counters to find the decimal equivalent of $\frac{2}{5}$.
You can draw on the place value chart to help you with exchanging.

$\frac{2}{5} = 2 \div 5 = \boxed{0.4}$



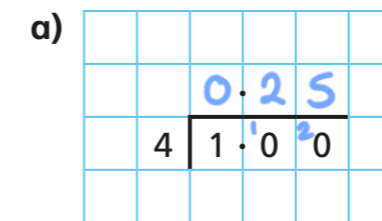
3 Fractions can be converted to decimals by using the short division method.

For example, $\frac{1}{8} = 1 \div 8$

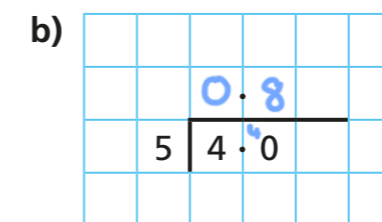


$\frac{1}{8} = 0.125$

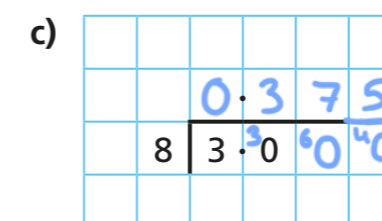
Use the short division method to find the decimal equivalent of the fractions.



$\frac{1}{4} = \boxed{0.25}$



$\frac{4}{5} = \boxed{0.8}$



$\frac{3}{8} = \boxed{0.375}$



4 Find the decimal equivalents for these fractions.

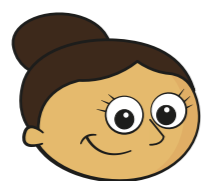
a) $\frac{7}{8} =$ 0.875

c) $\frac{1}{16} =$ 0.0625

b) $\frac{7}{5} =$ 1.4

d) $\frac{9}{16} =$ 0.5625

5



To find $\frac{19}{20}$ as a decimal,
I found $\frac{1}{20}$ as a decimal, then
took it away from 1

Here is Dora's working out.

			0	.	0	5
	2	0	1	.	0	0

$1 - 0.05 = 0.95$

$\frac{19}{20} = 0.95$

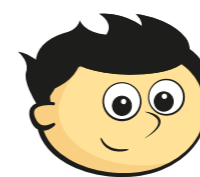
Use Dora's method to find the decimal equivalent for $\frac{49}{50}$

			0	.	0	2
	5	0	1	.	0	0

$1 - 0.02 = 0.98$

0.98

6



I converted $\frac{1}{2}$ to
a decimal and got the
answer 2

Jack is incorrect.

Explain the mistake that Jack has made.

He did $2 \div 1$ when he should have done

$1 \div 2$

7

Filip is thinking of a fraction.

When he converts it to a decimal, it is smaller than 0.5 but greater than 0.4

What fraction could Filip be thinking of?

E.g. 0.49

Are there any other possible answers? Talk to a partner.

8

Use the short division method to find the decimal equivalent of $\frac{1}{3}$

0.33333...

Compare answers with a partner.