

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

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

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

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

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

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

- 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.

$\frac{2}{5} = 2 \div 5 = \square$

Ones	Tenths
1 1	

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

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

		0	1	2	5	
	8	1	0	2	0	

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

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

a)

			.			
	4	1	0	0		

$\frac{1}{4} = \square$

b)

			.			
	5	4	0			

$\frac{4}{5} = \square$

c)

			.			
	8	3	0			

$\frac{3}{8} = \square$



4 Find the decimal equivalents for these fractions.

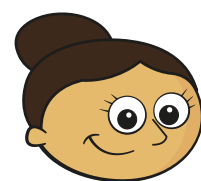
a) $\frac{7}{8} =$

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

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

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

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.

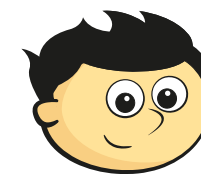
			0	.	0	5
2	0		1	.	0	¹⁰ 0

$$1 - 0.05 = 0.95$$

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

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

6



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

Jack is incorrect.

Explain the mistake that Jack has made.

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?

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

8

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

Compare answers with a partner.