

# 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
	



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
				4	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.

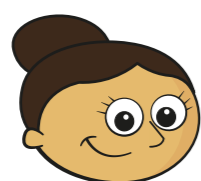
a)  $\frac{7}{8} =$

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.

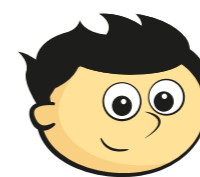
			0	.	0	5
	2	0	1	.	0	<sup>10</sup> 0

$1 - 0.05 = 0.95$

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

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.

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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.