Fractions as division

1 Fractions can be expressed as divisions.

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

Write the fractions as divisions.

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

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

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

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

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

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

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.

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

Ones	Tenths
① ①	

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

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

$$\begin{array}{r} 0 \cdot 1\ 2\ 5 \\ 8\overline{\smash{)}1\cdot {}^{1}0\ {}^{2}0\ {}^{4}0} \end{array}$$

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

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

a)

$$4\overline{\smash{)}1\cdot 0\ 0}$$

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

b)

$$5\overline{\smash{)}4\cdot 0}$$

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

c)

$$8\overline{\smash{)}3\cdot 0}$$

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

4 Find the decimal equivalents for the fractions.

a) $\frac{7}{8}$ = ⬜ **c)** $\frac{1}{16}$ = ⬜

b) $\frac{7}{5}$ = ⬜ **d)** $\frac{9}{16}$ = ⬜

5
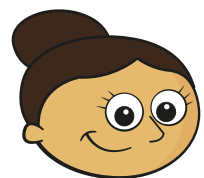
To find $\frac{19}{20}$ as a decimal, I found $\frac{1}{20}$ as a decimal, then took it away from 1
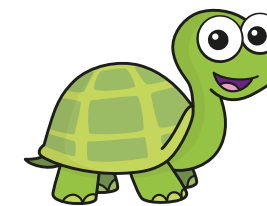
Here are Dora's workings.

		0	.	0	5
2	0	1	.	¹0	¹⁰0

1 − 0.05 = 0.95

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

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

⬜

6

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

Tiny is incorrect.

Explain the mistake that Tiny has made.

_____

_____

_____

7 Max is thinking of a fraction.

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

What fraction could Max 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.