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

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

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

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

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

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

$$8 \overline{)1.^{1}0^{2}0^{4}0} \quad 0.125$$

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

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

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

$$4 \overline{)1.00}$$

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

$$5 \overline{)4.0}$$

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

$$8 \overline{)3.0}$$

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4 Find the decimal equivalents for these fractions.

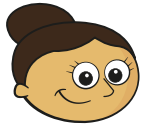
a) $\frac{7}{8}$ = ☐

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.

$$\begin{array}{r} 0.05 \\ 20\overline{)1.^{1}0^{10}0} \end{array}$$

$1 - 0.05 = 0.95$

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

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.

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