

18.01.22

WALT: Convert Fractions to Decimals (2)

Fluency

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

- 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	0	0		

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

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

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

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

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

Varied Fluency

- 4 Find the decimal equivalents for these fractions.

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

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

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

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

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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 $\frac{49}{50}$

Reasoning



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

Jack is incorrect.

Explain the mistake that Jack has made.

Problem Solving - Mastery

- 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.