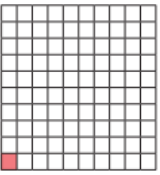


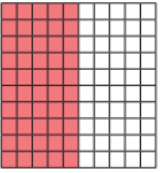
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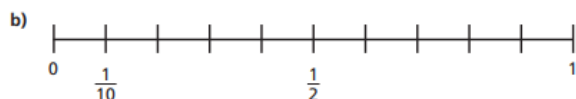
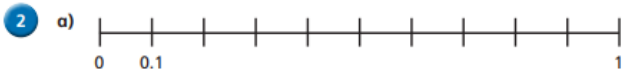
WALT: Convert Fractions to Decimals (1)

Fluency

1 Complete the sentences.

a)  Each square represents $\frac{\square}{100}$
 $\frac{\square}{100}$ of the whole square is shaded.
 This is equivalent to $\square$ as a decimal.

b)  $\frac{\square}{100}$ of the whole square is shaded.
 This can be simplified to $\frac{\square}{\square}$
 This is equivalent to $\square$ as a decimal.



What is the same and what is different about the number lines?

Varied Fluency

3 To convert a fraction to a decimal, you can use equivalent fractions to make the denominator 100

$$\frac{12}{50} \xrightarrow{\times 2} \frac{24}{100} = 0.24$$

Use this method to find the equivalent decimals for the fractions.

a) $\frac{28}{50} = \frac{\square}{100} = \square$

c) $\frac{9}{25} = \frac{\square}{100} = \square$

b) $\frac{6}{20} = \frac{\square}{100} = \square$

d) $\frac{24}{200} = \frac{\square}{100} = \square$

4 Some fractions can be converted to have a denominator of 1,000 to find their decimal equivalent.

$$\frac{62}{500} \xrightarrow{\times 2} \frac{124}{1000} = 0.124$$

a) $\frac{27}{500} = \frac{\square}{1000} = \square$

c) $\frac{51}{200} = \frac{\square}{1000} = \square$

b) $\frac{62}{250} = \frac{\square}{1000} = \square$

d) $\frac{128}{2000} = \frac{\square}{1000} = \square$

5 Convert the fractions to their decimal equivalents.

a) $\frac{1}{5}$ $\frac{1}{10}$ $\frac{1}{20}$ $\frac{1}{40}$

b) $\frac{1}{20}$ $\frac{2}{20}$ $\frac{3}{20}$ $\frac{6}{20}$

Reasoning

Tommy, Alex and Eva are working out the decimal equivalent of $\frac{60}{200}$



Tommy

You need to convert it to have a denominator of 100 to find the decimal equivalent.

I disagree. You need to convert it to have a denominator of 1,000



Alex



Eva

Both of you are right!

Who do you agree with?

Explain your thinking.

Problem Solving – Mastery

0.5 is equivalent to $\frac{1}{2}$, $\frac{5}{10}$, $\frac{50}{100}$

Are these the only fractions that are equivalent to 0.5?

How many fractions can you find?

Compare answers with a partner.