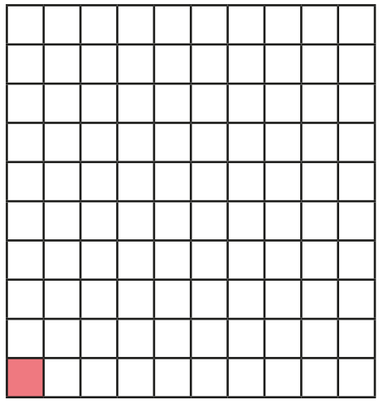
Fractions to decimals (1)

1 Complete the sentences.

a)

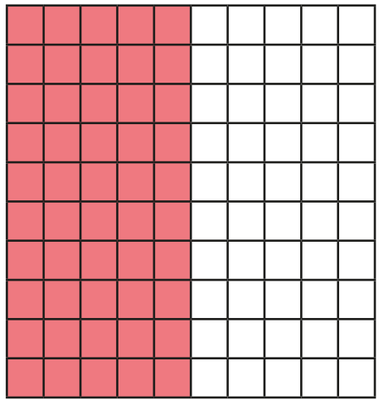


Each square represents $\frac{\square}{100}$

$\frac{\square}{100}$ of the whole square is shaded.

This is equivalent to ☐ as a decimal.

b)

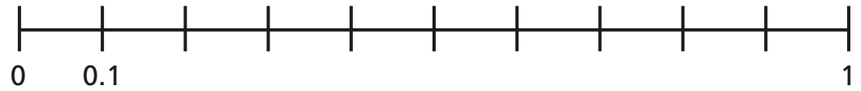


$\frac{\square}{100}$ of the whole square is shaded.

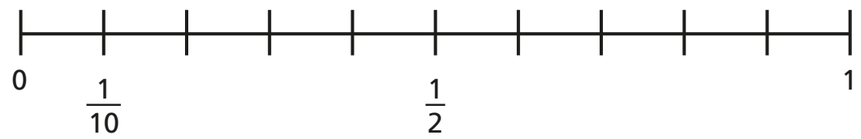
This can be simplified to $\frac{\square}{\square}$

This is equivalent to ☐ as a decimal.

2 **a)**

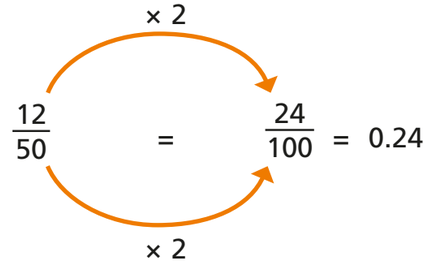


b)



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

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



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

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

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

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

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

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

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

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

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

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

d) $\frac{128}{2{,}000} = \frac{\square}{1000} = \square$

5 Convert the fractions to their decimal equivalents.

a) $\frac{1}{5} = \square$

$\frac{1}{10} = \square$

$\frac{1}{20} = \square$

$\frac{1}{40} = \square$

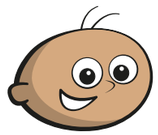
b) $\frac{1}{20} = \square$

$\frac{2}{20} = \square$

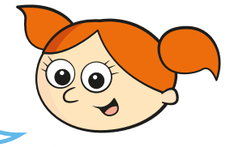
$\frac{3}{20} = \square$

$\frac{6}{20} = \square$

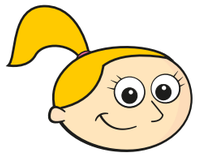
6 Tommy, Alex and Eva are working out the decimal equivalent of $\frac{60}{200}$



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



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



Eva: Both of you are right!

Who do you agree with? _____

Explain your thinking.

_____

_____

_____

7 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.

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