White R○se Maths

1 Complete the sentences.

a)
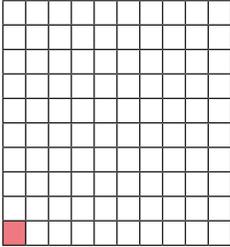
Each square represents $\dfrac{\square}{100}$

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

This is equivalent to ⬚ as a decimal.

b)
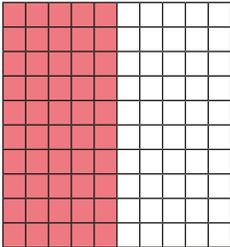
$\dfrac{\square}{100}$ of the whole square is shaded.

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

This is equivalent to ⬚ as a decimal.

2 a)

0   0.1   1

b)

0    $\dfrac{1}{10}$ $\dfrac{1}{2}$ 1
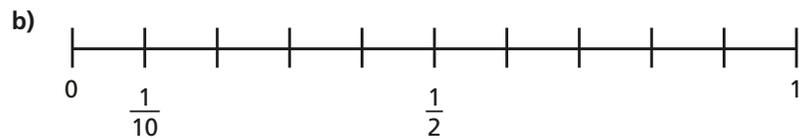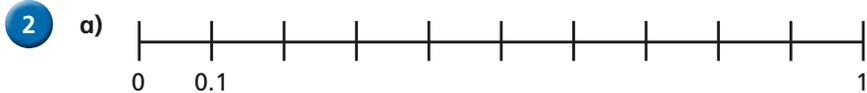
What is the same and what is different about the number lines?

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

$\times 2$

$\dfrac{12}{50}$ = $\dfrac{24}{100}$ = 0.24

$\times 2$
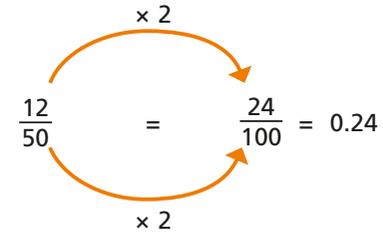
Use this method to find the equivalent decimals for the fractions.

a) $\dfrac{28}{50} = \dfrac{\square}{100} = \boxed{}$

c) $\dfrac{9}{25} = \dfrac{\square}{100} = \boxed{}$

b) $\dfrac{6}{20} = \dfrac{\square}{100} = \boxed{}$

d) $\dfrac{24}{200} = \dfrac{\square}{100} = \boxed{}$

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

$\times 2$

$\dfrac{62}{500}$ = $\dfrac{124}{1000}$ = 0.124

$\times 2$
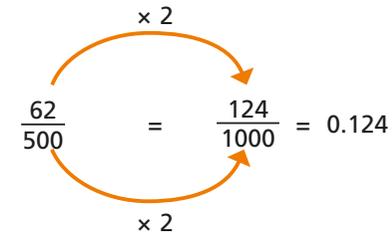
a) $\dfrac{27}{500} = \dfrac{\square}{1000} = \boxed{}$

c) $\dfrac{51}{200} = \dfrac{\square}{1000} = \boxed{}$

b) $\dfrac{62}{250} = \dfrac{\square}{1000} = \boxed{}$

d) $\dfrac{128}{2000} = \dfrac{\square}{1000} = \boxed{}$

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

$$\frac{12}{50} = \frac{24}{100} = 0.24$$

× 2

× 2

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

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

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

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

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

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

$$\frac{62}{500} = \frac{124}{1000} = 0.124$$

× 2

× 2

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

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

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

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

5 Convert the fractions to their decimal equivalents.

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

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

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

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

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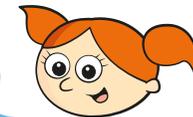
> I disagree. You need to convert it to have a denominator of 1,000

Alex
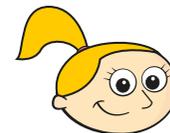
> Both of you are right!

Eva

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.