

Decimal and fraction equivalents

1 Complete the sentences.

a)

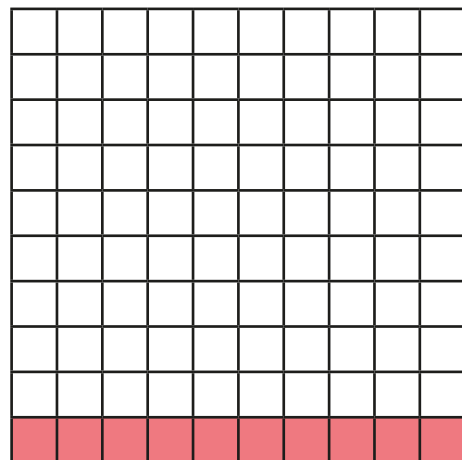
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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The whole has been divided into equal parts.

Each part is worth

This is equivalent to

b)



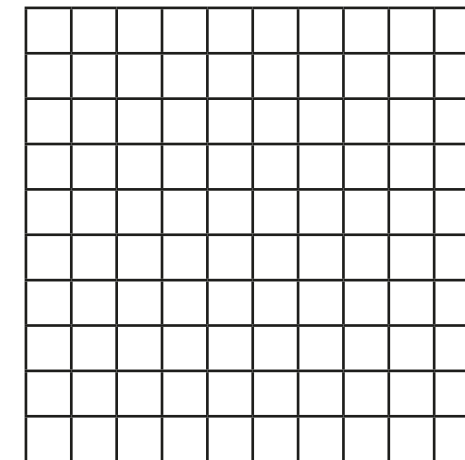
The whole has been divided into equal parts.

Each part is worth

parts out of are shaded.

This is equivalent to

2 a) Shade 0.17 of the hundred square.



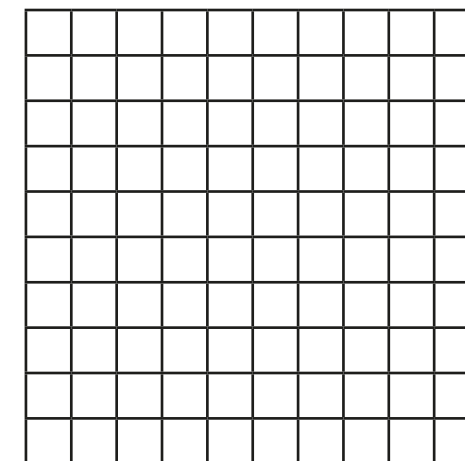
Complete the sentence.

parts out of are shaded.

Write 0.17 as a fraction.

0.17 =

b) Shade 0.2 of the hundred square.



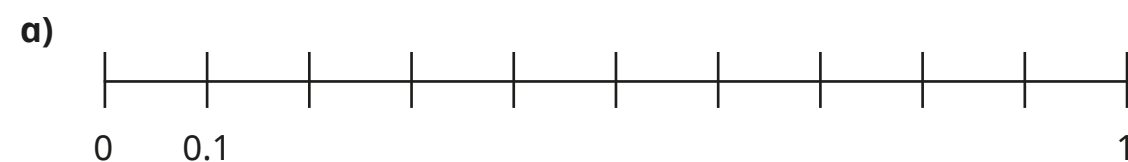
Complete the sentence.

parts out of are shaded.

Write 0.2 as a fraction in its simplest form.

0.2 =

- 3 Complete the number lines.



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



- 4 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) $\frac{28}{50} = \frac{\boxed{}}{100} = \boxed{}$

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

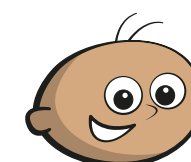
b) $\frac{6}{20} = \frac{\boxed{}}{100} = \boxed{}$

e) $\frac{27}{500} = \frac{\boxed{}}{1000} = \boxed{}$

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

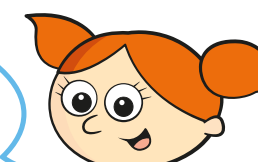
f) $\frac{62}{250} = \frac{\boxed{}}{1000} = \boxed{}$

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



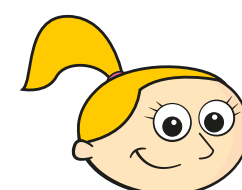
Tommy

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



Alex

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



Eva

Both of you are correct!

Who do you agree with? _____

Explain your thinking.

- 6 0.5 is equivalent to $\frac{1}{2}$, $\frac{5}{10}$ and $\frac{50}{100}$

Are these the only fractions that are equivalent to 0.5?

How many fractions can you find?

Compare answers with a partner.

