

# Decimals as fractions

1 Complete the sentences.

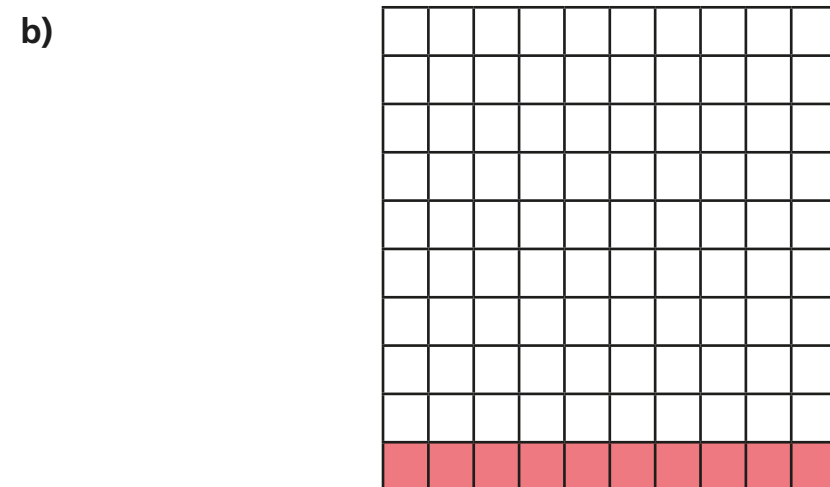
a) 

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

The whole has been divided into  equal parts.

Each part is worth

This is equivalent to



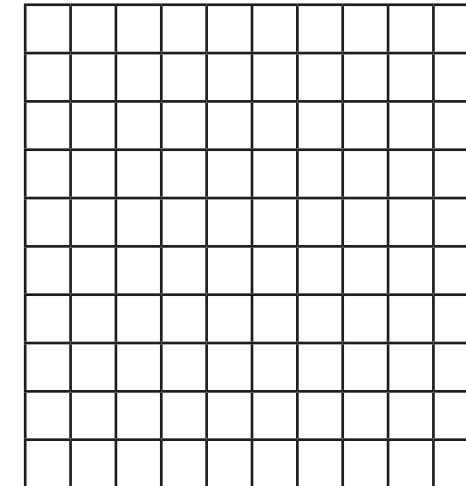
The whole has been divided into  equal parts.

Each part is worth

parts out of  are shaded.

This is equivalent to

2 a) Shade 0.17 of the hundred square.



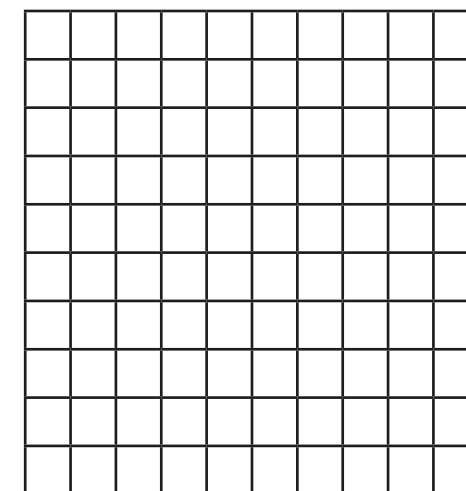
Complete the sentence.

parts out of  are shaded.

Write 0.17 as a fraction.

0.17 =

b) Shade 0.2 of the hundred square.



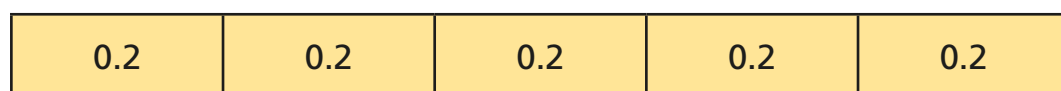
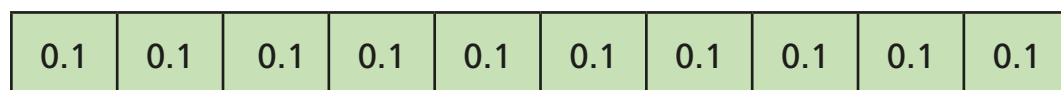
Complete the sentence.

parts out of  are shaded.

Write 0.2 as a fraction in its simplest form.

0.2 =

3



Use the bar models to fill in the missing numbers.

$$0.2 = \frac{\boxed{\phantom{00}}}{10} = \frac{1}{\boxed{\phantom{00}}}$$

$$0.4 = \frac{\boxed{\phantom{00}}}{10} = \frac{2}{\boxed{\phantom{00}}}$$

$$\boxed{\phantom{00}} = \frac{\boxed{\phantom{00}}}{10} = \frac{4}{5}$$

4

Fill in the missing numbers.

$$\text{a) } 0.54 = \frac{\boxed{\phantom{00}}}{100} = \frac{\boxed{\phantom{00}}}{50}$$

$$\text{b) } 0.6 = \frac{\boxed{\phantom{00}}}{10} = \frac{\boxed{\phantom{00}}}{5}$$

$$\text{c) } 0.3 = \frac{\boxed{\phantom{00}}}{10} = \frac{\boxed{\phantom{00}}}{100}$$

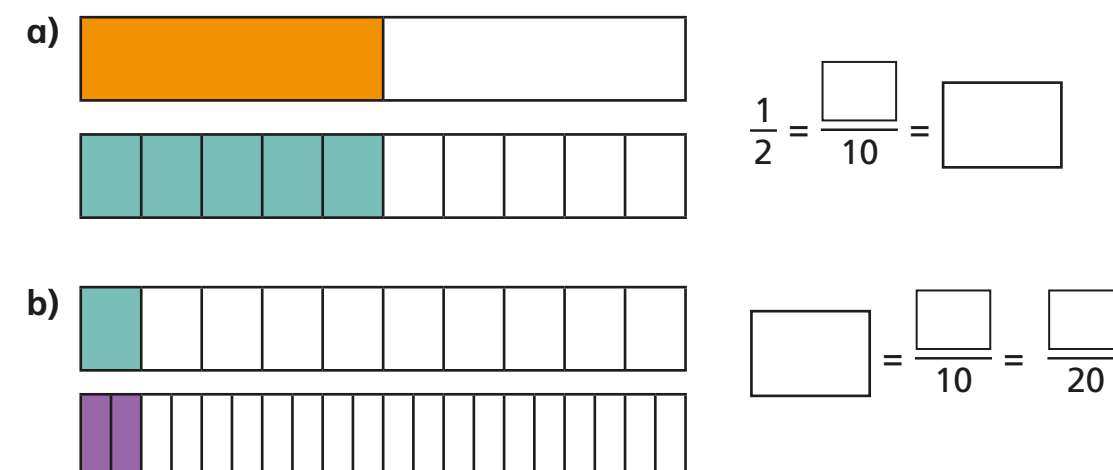
$$\text{d) } \boxed{\phantom{00}} = \frac{9}{100}$$

$$\text{e) } \boxed{\phantom{00}} = \frac{9}{10}$$

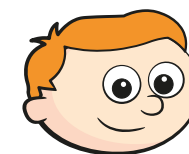
$$\text{f) } \frac{21}{50} = \frac{\boxed{\phantom{00}}}{100} = \boxed{\phantom{00}}$$

5

Use the bar models to fill in the missing numbers.



6



$0.3 = \frac{3}{10}$  so  $0.37 = \frac{37}{10}$

Draw a diagram to show that Ron is wrong.

