

Decimals as fractions

1 Complete the sentences.

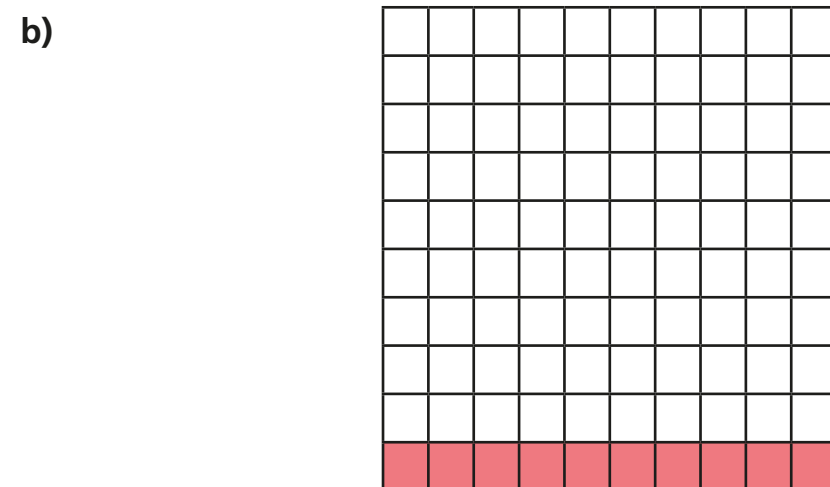
a)

0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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The whole has been divided into 10 equal parts.

Each part is worth 0.1

This is equivalent to $\frac{1}{10}$



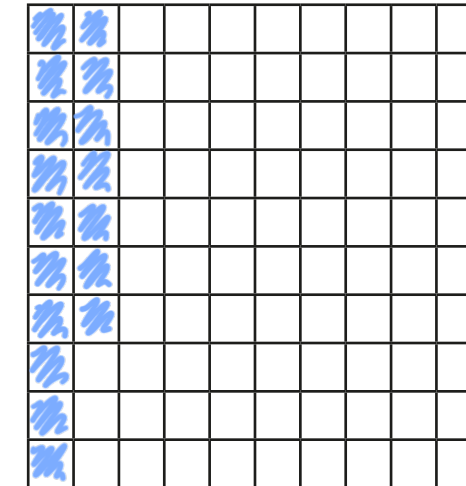
The whole has been divided into 100 equal parts.

Each part is worth 0.01

10 parts out of 100 are shaded.

This is equivalent to $\frac{10}{100}$ or $\frac{1}{10}$

2 a) Shade 0.17 of the hundred square.



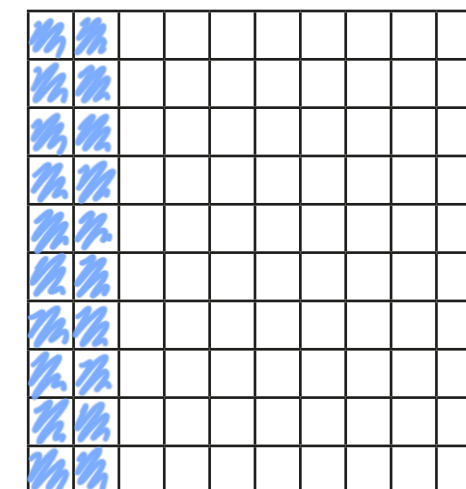
Complete the sentence.

17 parts out of 100 are shaded.

Write 0.17 as a fraction.

$0.17 = \frac{17}{100}$

b) Shade 0.2 of the hundred square.



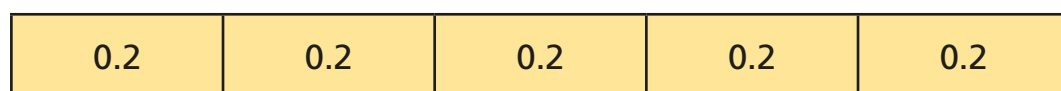
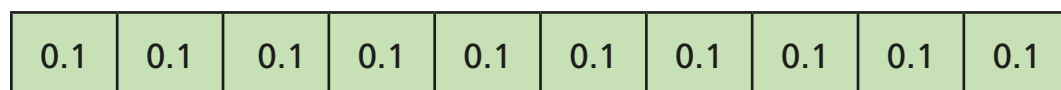
Complete the sentence.

20 parts out of 100 are shaded.

Write 0.2 as a fraction in its simplest form.

$0.2 = \frac{1}{5}$

3



Use the bar models to fill in the missing numbers.

$$0.2 = \frac{2}{10} = \frac{1}{5}$$

$$0.4 = \frac{4}{10} = \frac{2}{5}$$

$$0.8 = \frac{8}{10} = \frac{4}{5}$$

4

Fill in the missing numbers.

$$a) 0.54 = \frac{54}{100} = \frac{27}{50}$$

$$b) 0.6 = \frac{6}{10} = \frac{3}{5}$$

$$c) 0.3 = \frac{3}{10} = \frac{30}{100}$$

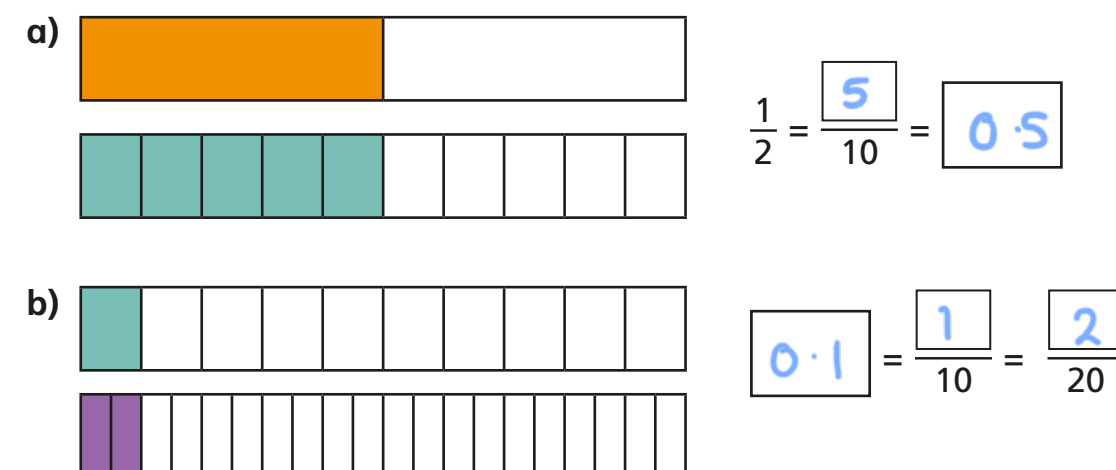
$$d) 0.09 = \frac{9}{100}$$

$$e) 0.9 = \frac{9}{10}$$

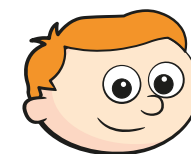
$$f) \frac{21}{50} = \frac{42}{100} = 0.42$$

5

Use the bar models to fill in the missing numbers.

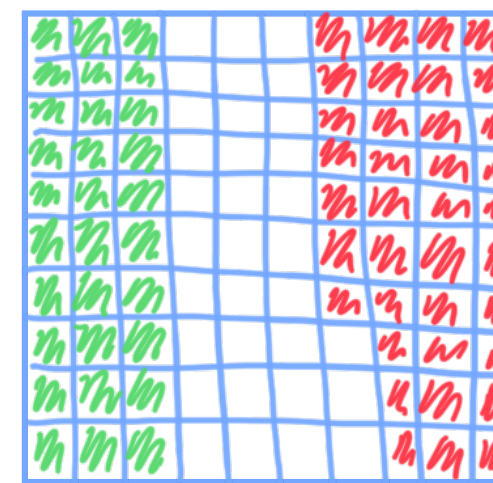


6



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

Draw a diagram to show that Ron is wrong.



$$0.3 = \frac{3}{10}$$

$$0.37 = \frac{37}{100}$$

