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
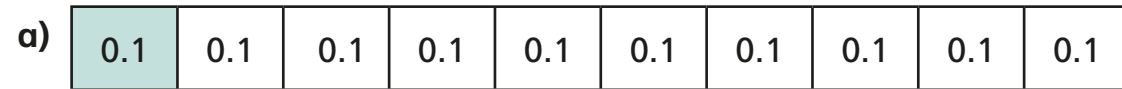
The whole has been divided into [ ] equal parts.

Each part is worth [ ]

This is equivalent to [ ]

b)
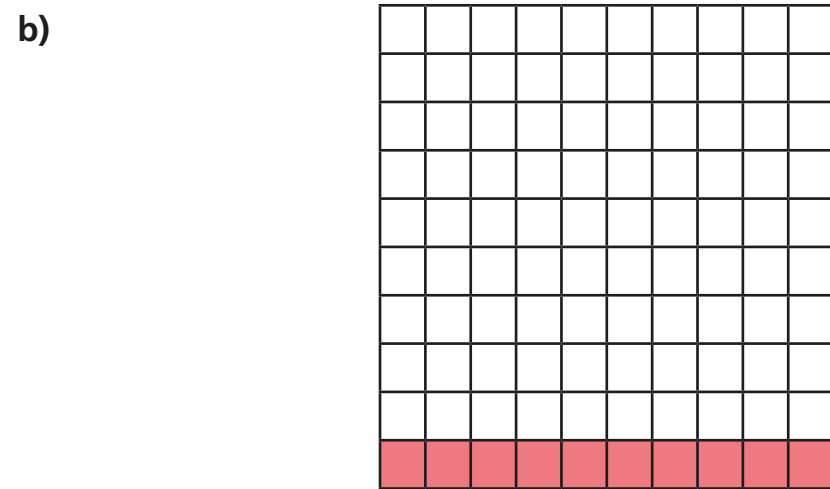
The whole has been divided into [ ] equal parts.

Each part is worth [ ]

[ ] parts out of [ ] are shaded.

This is equivalent to [ ]

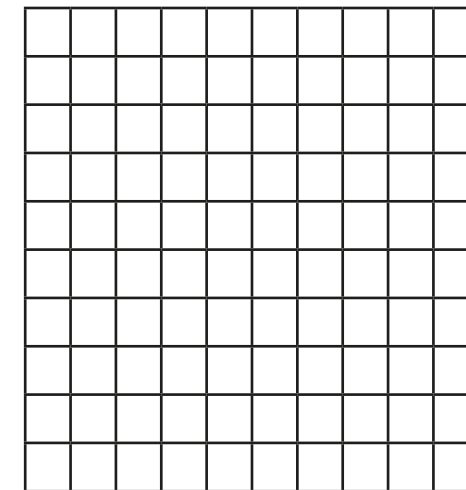**2** **a)** Shade 0.17 of the hundred square.
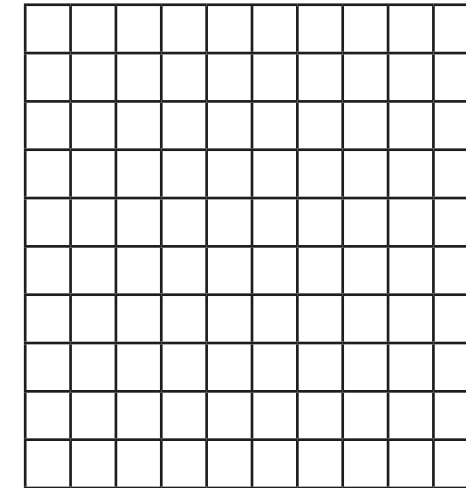
Complete the sentence.

[ ] parts out of [ ] are shaded.

Write 0.17 as a fraction.

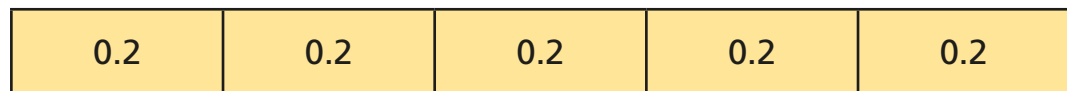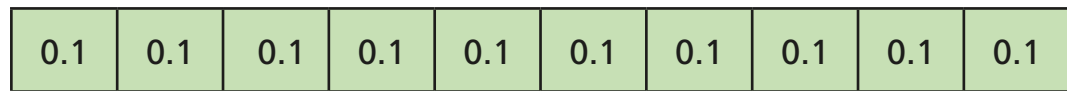0.17 = [ ]

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

| 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |

| 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |

Use the bar models to fill in the missing numbers.

$$0.2 = \frac{\square}{10} = \frac{1}{\square}$$

$$0.4 = \frac{\square}{10} = \frac{2}{\square}$$

$$\square = \frac{\square}{10} = \frac{4}{5}$$

4 Fill in the missing numbers.

a) $0.54 = \dfrac{\square}{100} = \dfrac{\square}{50}$

b) $0.6 = \dfrac{\square}{10} = \dfrac{\square}{5}$
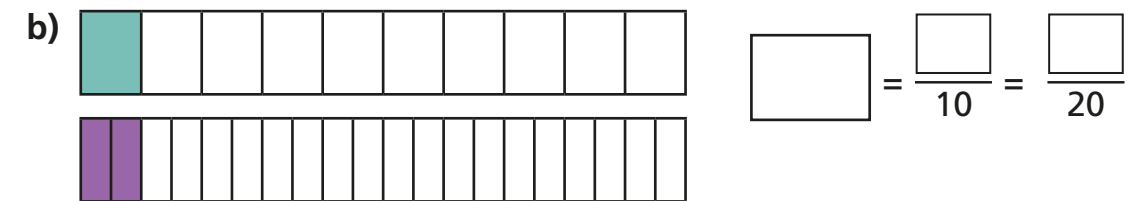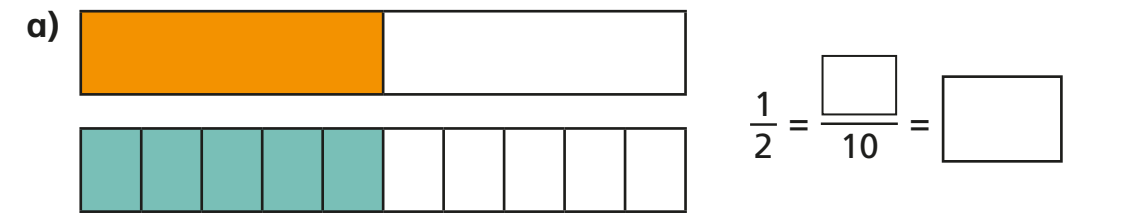
c) $0.3 = \dfrac{\square}{10} = \dfrac{\square}{100}$
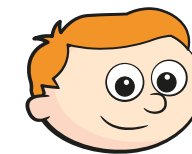
d) $\square = \dfrac{9}{100}$

e) $\square = \dfrac{9}{10}$

f) $\dfrac{21}{50} = \dfrac{\square}{100} = \square$

5 Use the bar models to fill in the missing numbers.

a)

$$\frac{1}{2} = \frac{\square}{10} = \square$$

b)

$$\square = \frac{\square}{10} = \frac{\square}{20}$$

6

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

Draw a diagram to show that Ron is wrong.