Morning y6 . You need to go to W.R. Maths to watch the video : Summer wk.5 lesson 4 Decimals as fractions

Wednesday 1st July

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 ☐
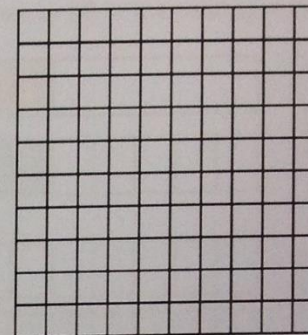
This is equivalent to ☐

b)

The whole has been divided into ☐ equal parts.

Each part is worth ☐

☐ parts out of ☐ are shaded.

This is equivalent to ☐
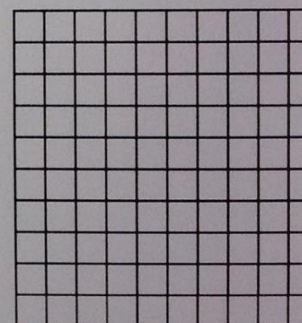
2 a) Shade 0.17 of the hundred square.

Complete the sentence.

☐ parts out of ☐ are shaded.

Write 0.17 as a fraction.
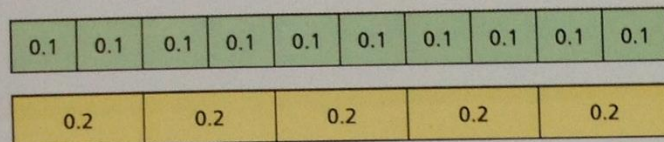
0.17 = ☐

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.

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

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

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

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) $\boxed{} = \dfrac{9}{100}$

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

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

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

a)

$\dfrac{1}{2} = \dfrac{\square}{10} = \boxed{}$

b)

$\boxed{} = \dfrac{\square}{10} = \dfrac{\square}{20}$
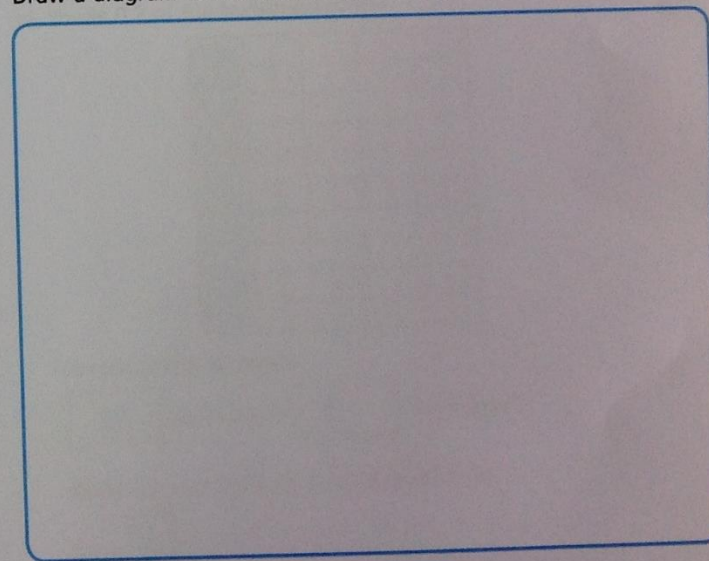
6

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

Draw a diagram to show that Ron is wrong.

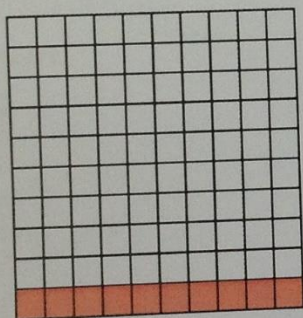## Decimals as fractions

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 10 equal parts.

Each part is worth $0\cdot1$
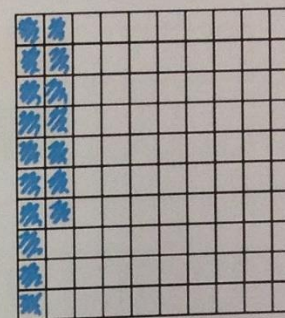
This is equivalent to $\frac{1}{10}$

b)

The whole has been divided into 100 equal parts.

Each part is worth $0\cdot01$

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.

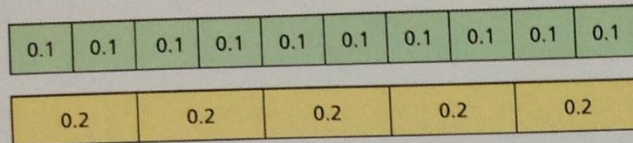$0.17 = \frac{17}{100}$

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

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.

$0.2 = \dfrac{\boxed{2}}{10} = \dfrac{1}{\boxed{5}}$

$0.4 = \dfrac{\boxed{4}}{10} = \dfrac{2}{\boxed{5}}$

$\boxed{0\cdot8} = \dfrac{\boxed{8}}{10} = \dfrac{4}{5}$

4 Fill in the missing numbers.

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

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

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

d) $\boxed{0\cdot09} = \dfrac{9}{100}$

e) $\boxed{0\cdot9} = \dfrac{9}{10}$

f) $\dfrac{21}{50} = \dfrac{\boxed{42}}{100} = \boxed{0\cdot42}$

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

a)

$\dfrac{1}{2} = \dfrac{\boxed{5}}{10} = \boxed{0\cdot5}$

b)

$\boxed{0\cdot1} = \dfrac{1}{10} = \dfrac{2}{20}$

6
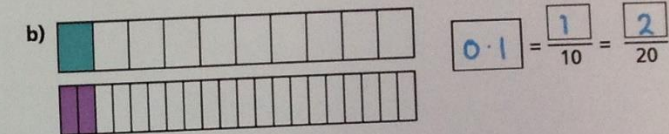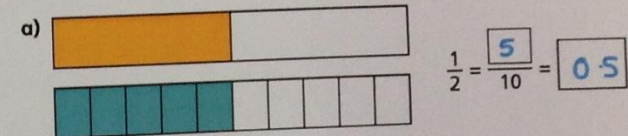
$0.3 = \dfrac{3}{10}$ so $0.37 = \dfrac{37}{10}$

Draw a diagram to show that Ron is wrong.

$0\cdot3 = \dfrac{3}{10}$

$0\cdot37 = \dfrac{37}{100}$