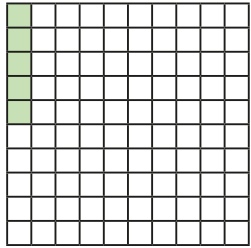# Decimals as fractions (1)

1 The hundred square represents 1 whole.

a) What fraction is represented by the shaded squares?
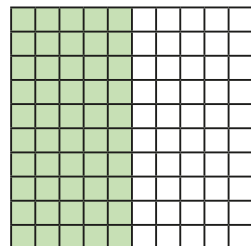
b) Convert the fraction to a decimal.

2 Colour a hundred grid to represent the fraction and the decimal.

a) $\dfrac{7}{100}$

b) 0.17

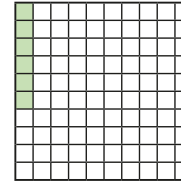**3** What fractions and decimals do the counters represent?

a) $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$

b) $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$

c) $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$

4 Amir has coloured part of a hundred square.

a) What fraction is represented by the coloured squares?

b) Write this fraction in a different way.

c) Write the fraction as a decimal.

5 Huan says he has coloured 0.6 of the hundred square.
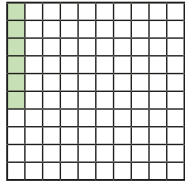

Explain the mistake that Huan has made.

6 Write <, > or = to complete the statements.

a) 0.4 ◯ $\dfrac{40}{100}$

b) 0.02 ◯ $\dfrac{20}{100}$

c) 0.6 ◯ $\dfrac{6}{10}$

d) 0.5 ◯ $\dfrac{5}{100}$

e) 0.88 ◯ $\dfrac{88}{100}$

f) 0.88 ◯ $\dfrac{89}{100}$

7 Complete the table.

Fifths	Tenths	Decimals
$\dfrac{1}{5}$	$\dfrac{\square}{10}$	0.2
$\dfrac{\square}{5}$	$\dfrac{4}{10}$	
		0.6
$\dfrac{4}{5}$	$\dfrac{8}{\square}$	

5 Huan says he has coloured 0.6 of the hundred square.
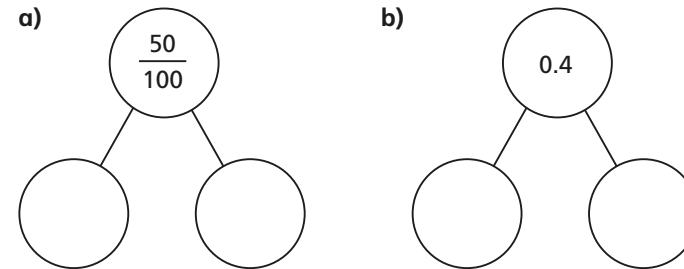

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e) 0.88 ◯ $\frac{88}{100}$

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7 Complete the table.

Fifths	Tenths	Decimals
$\frac{1}{5}$	$\frac{\square}{10}$	0.2
$\frac{\square}{5}$	$\frac{4}{10}$	
		0.6
$\frac{4}{5}$	$\frac{8}{\square}$	

8 Complete the part-whole models using fractions or decimals.

a)

b)

Compare answers with a partner.

9 Here is a number line.

0   1

| 0.3 | 0.75 | 0.15 | 1.0 |
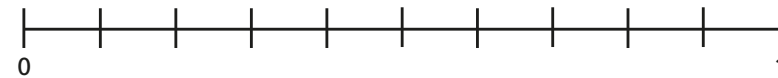
Draw arrows to show the position of each number on the number line.