Decimals as fractions (2)
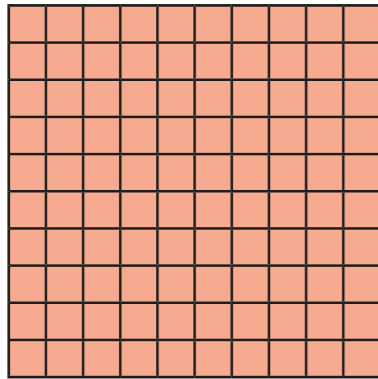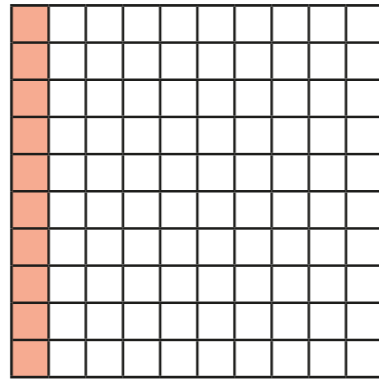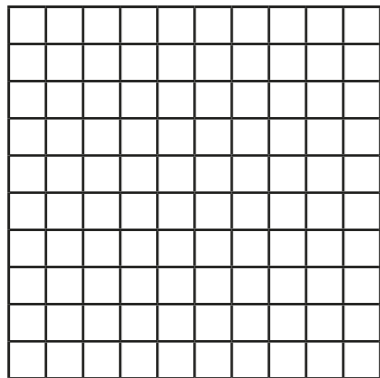
1 This grid represents 1

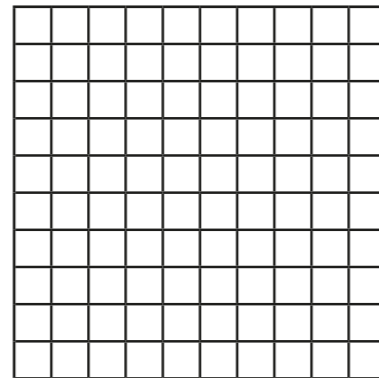This grid represents 0.1 or $\dfrac{10}{100}$ or $\dfrac{1}{10}$

Colour the hundred squares to represent the fractions.

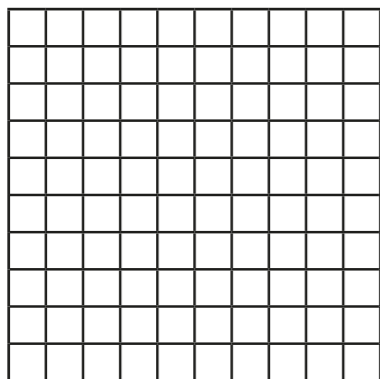**a)** $\dfrac{2}{100}$

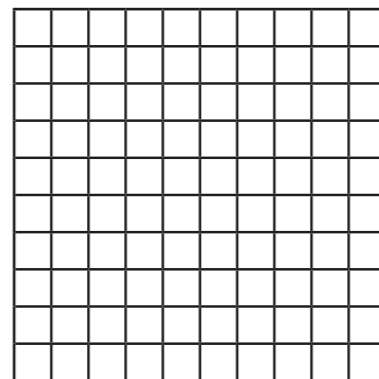**c)** $\dfrac{20}{100}$

b) $\dfrac{2}{10}$

d) $\dfrac{90}{100}$

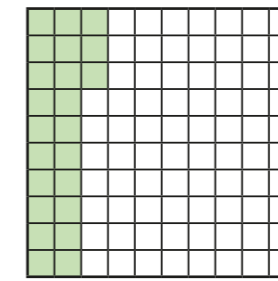**2** Complete the numbers to show how much of the square is shaded.
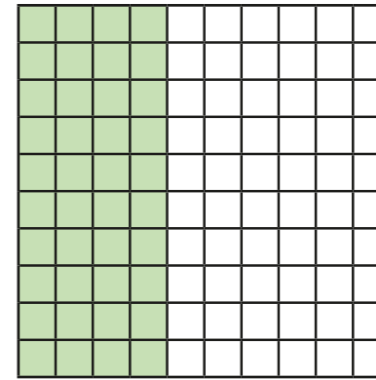
$\dfrac{\boxed{}}{100}$

$\dfrac{\boxed{}}{10}$

$0.\underline{}$

3 What fractions and decimals are represented?

a)
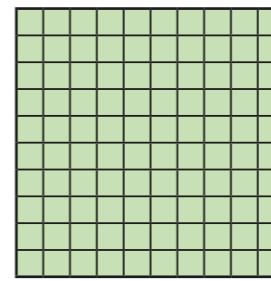
$1\dfrac{23}{100} = \boxed{}$

b)

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

c)

$\boxed{}\dfrac{\boxed{}}{10} = \boxed{}$

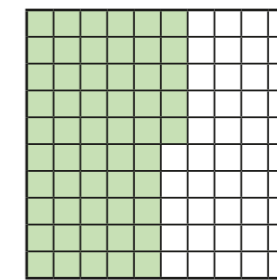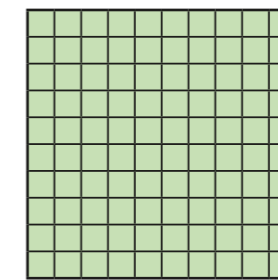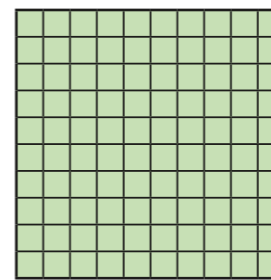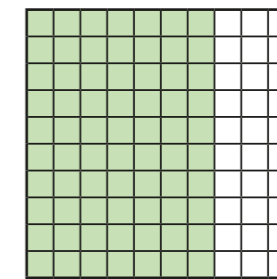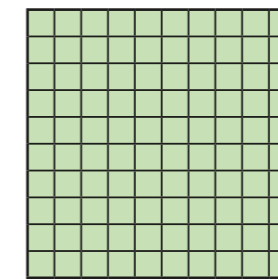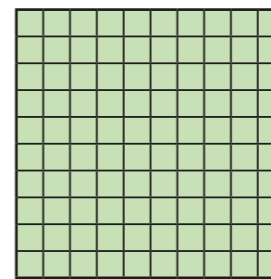**4**

a) Represent 2.15
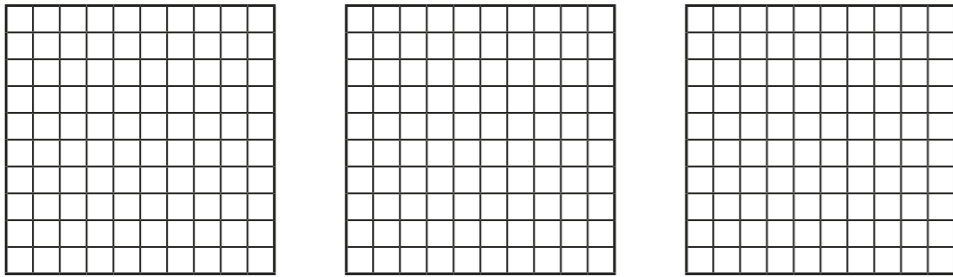
b) Represent $3\frac{7}{10}$
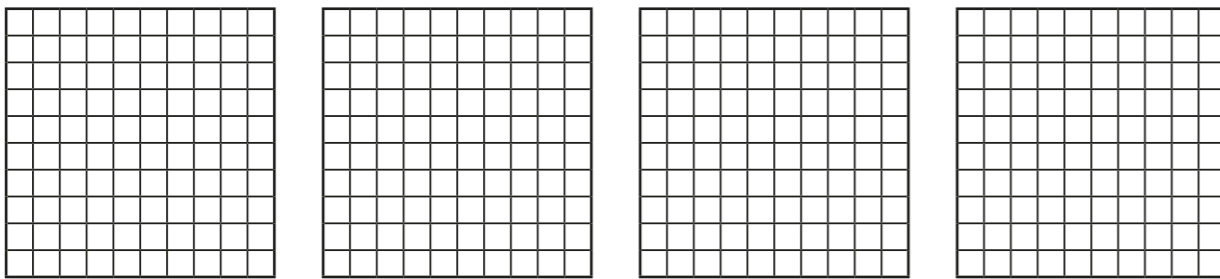
5 **a)** Label the number line with the decimals.

| 1.3 | 1.6 | 1.85 | 1.98 |

1.0   2.0
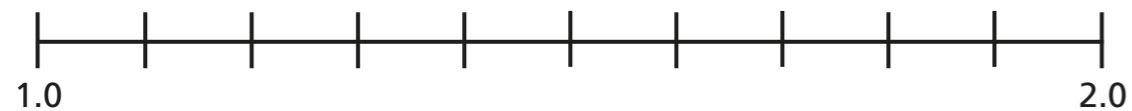
b) Label the number line with the fractions.

| $5\frac{1}{10}$ | $5\frac{1}{2}$ | $5\frac{73}{100}$ | $\frac{590}{100}$ |
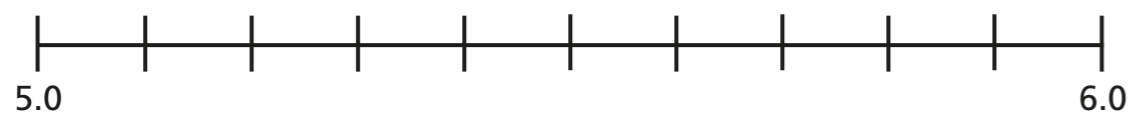
5.0   6.0

6 Complete the table.

Decimal	Decimal (expanded form)	Fraction	Fraction (expanded form)	In words
2.13	2 + 0.1 + 0.03	$2\frac{13}{100}$	$2 + \frac{1}{10} + \frac{3}{100}$	2 ones, 1 tenth and 3 hundredths
4.37		$4\frac{\Box}{100}$		
	5 + 0.6 + 0.02			
				8 ones and 2 hundredths

7 Write the decimals as fractions.
Give your answer as a mixed number.

a) 32.6 = $\boxed{}\,\dfrac{\boxed{}}{10}$

c) 13.08 = $\boxed{}\,\dfrac{\boxed{}}{100}$

b) 2.03 = $\boxed{}\,\dfrac{\boxed{}}{100}$

d) 3.98 = $\boxed{}\,\dfrac{\boxed{}}{100}$

8 Use the digits 3, 4 and 5 to complete the decimal number.

| | | . | 0 | |
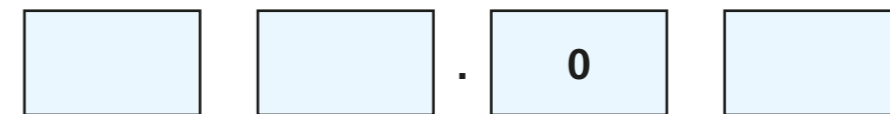
How many different numbers can you make?