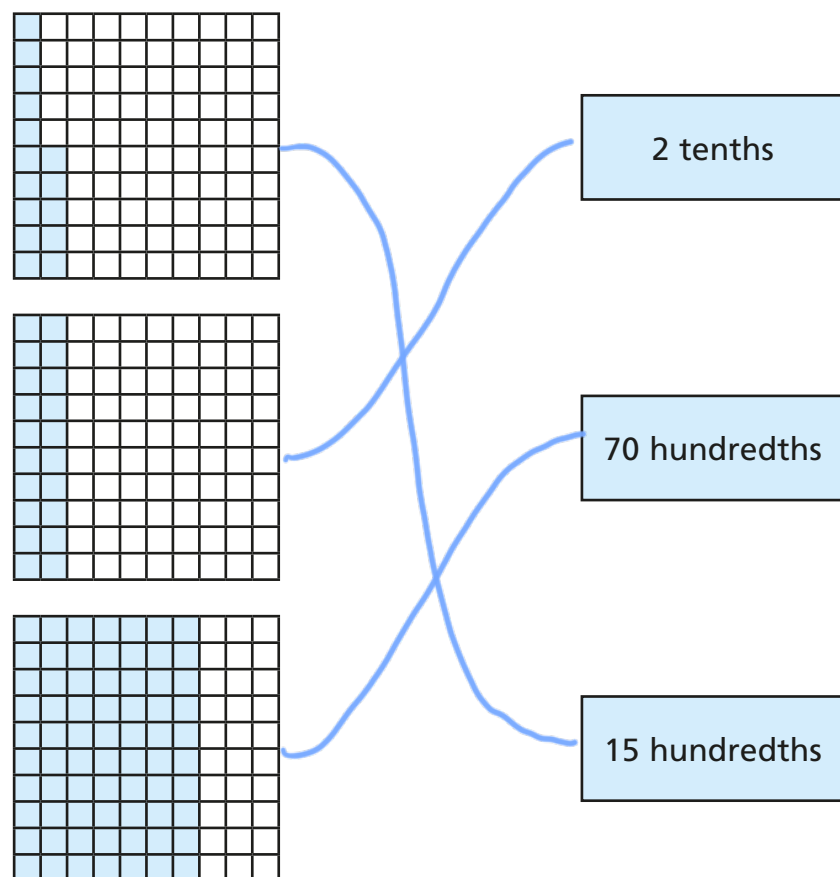


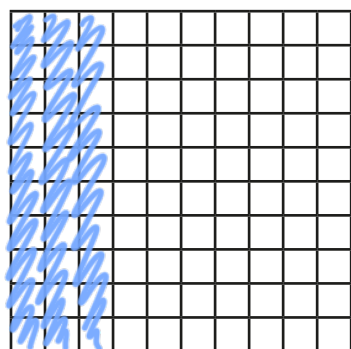
Represent tenths and hundredths as diagrams

1 Match the representation to the fraction.

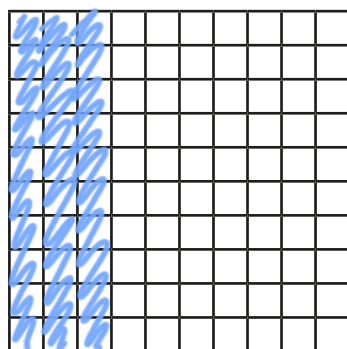


2 Represent the fractions on the hundred squares.

a) 3 tenths



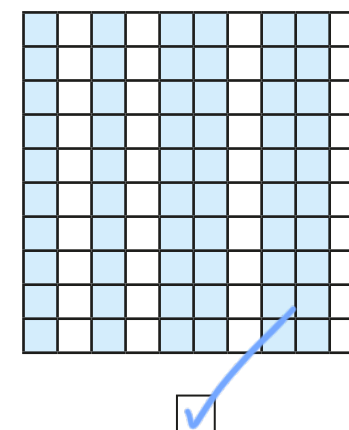
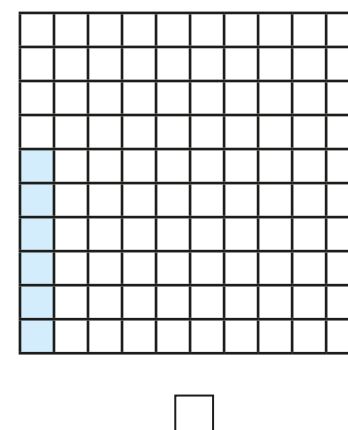
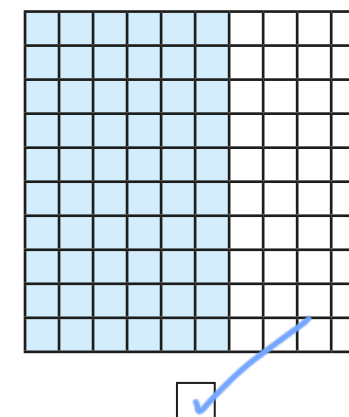
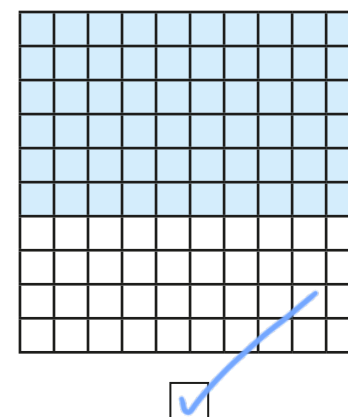
b) 30 hundredths



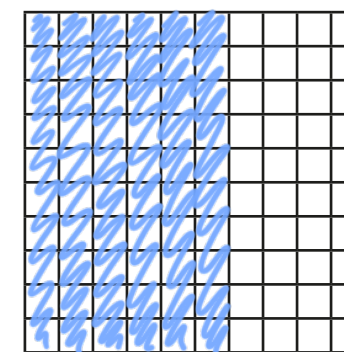
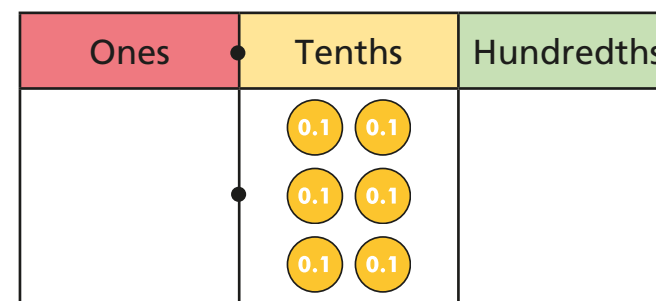
What do you notice? Discuss with a partner.



3 Huan uses a hundred square to represent 60 hundredths.
Tick the diagrams that represent this.



4 Shade the grids so that each representation shows the same number.

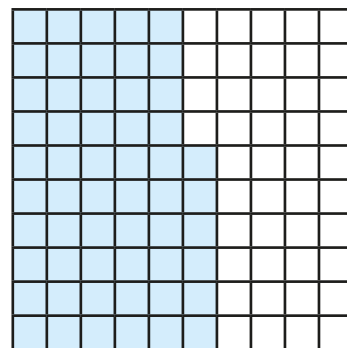




- 5 Complete the sentences.
- a) You need to shade 23 squares on a hundred square to represent $\frac{23}{100}$
- b) You need to shade 70 squares on a hundred square to represent $\frac{7}{10}$

- 6 Complete the place value chart so that it is equivalent to the shaded hundred square.

Ones	Tenths	Hundredths
	0.1 0.1 0.1 0.1	0.01 0.01 0.01 0.01



- 7 Teddy shades $\frac{6}{10}$ on a hundred square.
 Eva shades $\frac{4}{100}$ on a hundred square.
 Jack shades $\frac{16}{100}$ on a hundred square.
 What is the range of the number of squares they have shaded?

$\frac{14}{25}$

- 8 Alex shades a hundredths on a hundred square.
 Rosie shades b hundredths on a hundred square.
 Rosie has shaded 40 more squares than Alex.

- a) Write possible values for a and b . *Various answers e.g.*

$a =$ 20 $b =$ 60

- b) What is the maximum number of squares Alex could have shaded?
(A good discussion is 'what if they were shading on the same hundred square?'. This would mean the maximum number of squares Alex could have shaded is 30)

60

- 9 Dora shades a grid using three colours.

She shades the grid in the following way.

Colour	Red	Blue	Green
Fraction shaded	$\frac{3}{10}$	$\frac{5}{10}$	$\frac{7}{100}$

How many hundredths of the grid are not shaded?

$\frac{13}{100}$

