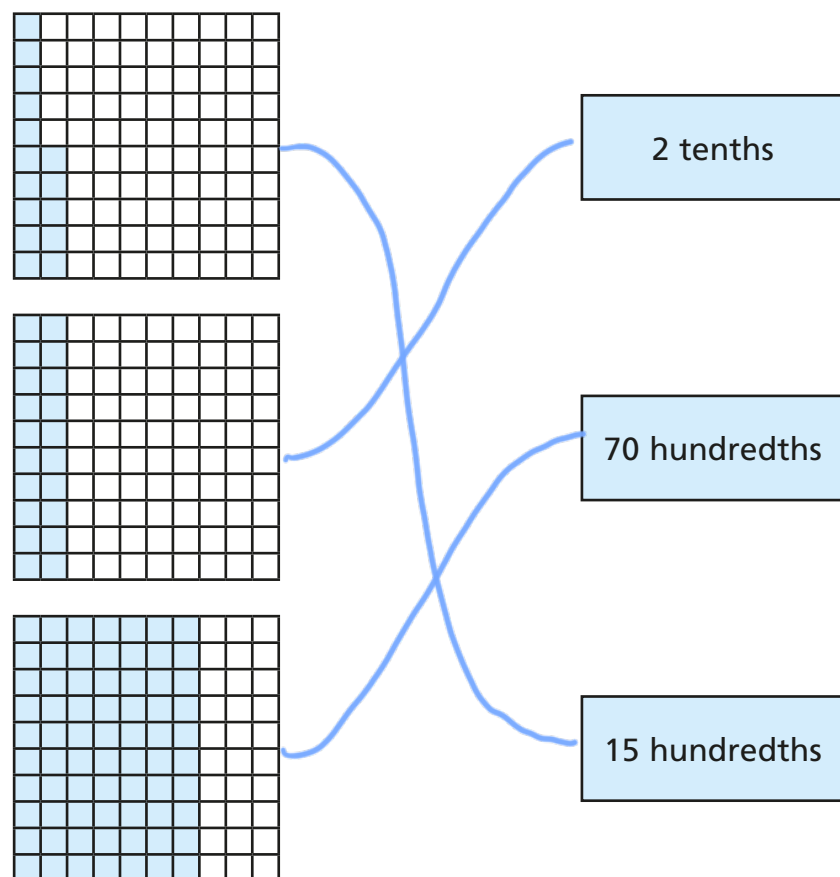


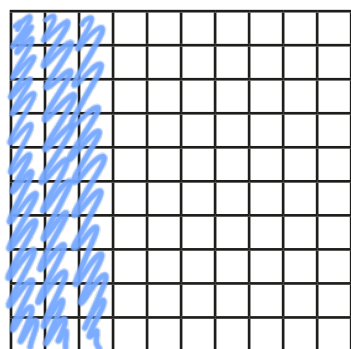
# Represent tenths and hundredths as diagrams

1 Match the representation to the fraction.

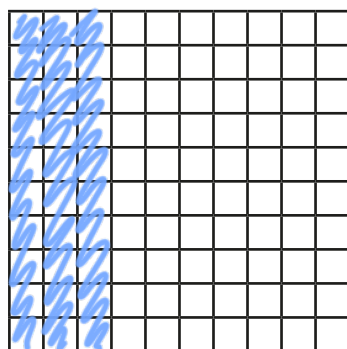


2 Represent the fractions on the hundred squares.

a) 3 tenths



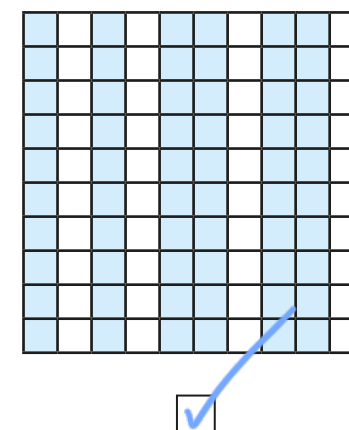
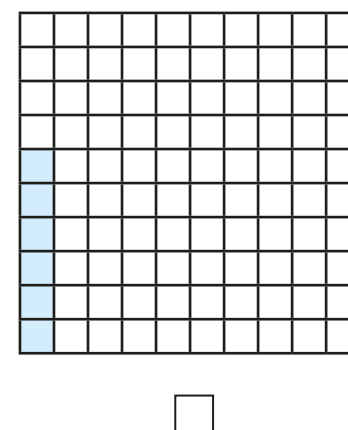
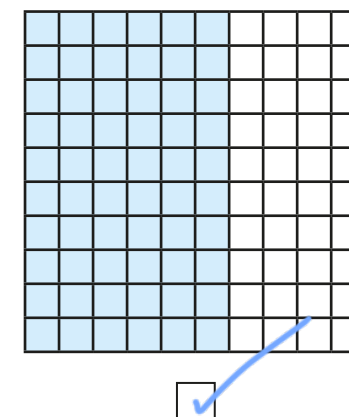
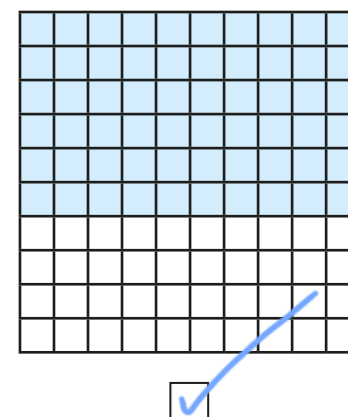
b) 30 hundredths



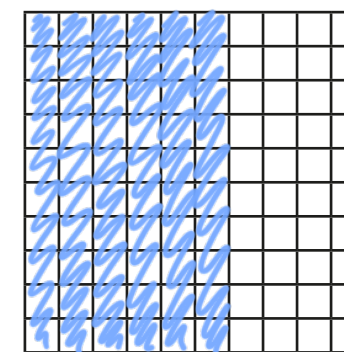
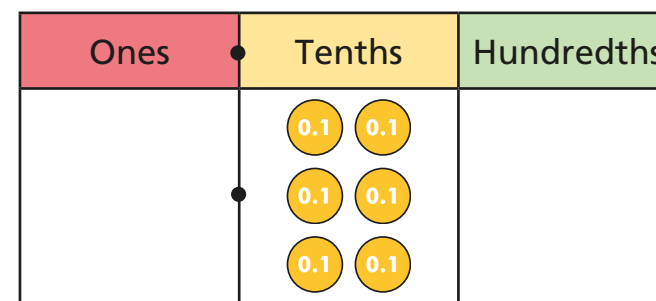
What do you notice? Discuss with a partner.



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.

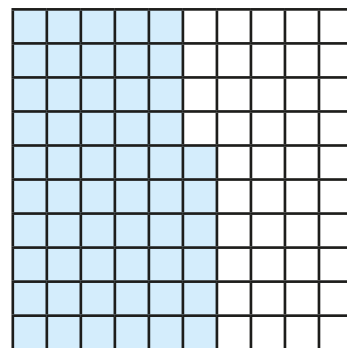




- 5 Complete the sentences.
- a) You need to shade 23 squares on a hundred square to represent  $\frac{23}{100}$
- b) You need to shade 70 squares on a hundred square to represent  $\frac{7}{10}$

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

Ones	Tenths	Hundredths
	<div>0.1 0.1</div> <div>0.1 0.1</div> <div>0.1</div>	<div>0.01 0.01</div> <div>0.01 0.01</div> <div>0.01 0.01</div>



- 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?

$\frac{13}{100}$

