1) Complete the table.

Place Value Grid		Stem Sentence	Decimal
Ones	**tenths**	There are ____ ones and ____ tenths.	___•___
	●●●●		
Ones	**tenths**	There are 6 ones and 0 tenths.	___•___
Ones	**tenths**	There are ____ ones and ____ tenths.	8•8

2) Look at the place value grid.

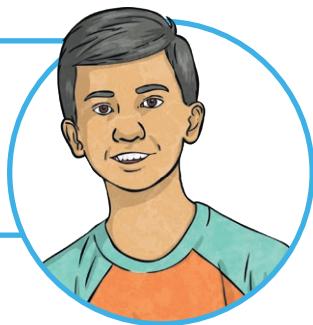| Ones	tenths
●●●○	●●●● ●●○○ ○○

  a) What number do the orange counters represent?

  b) What number do the white counters represent?

  c) What number do they make altogether?

3) Danka wants to make the number 8.4 on a place value chart.

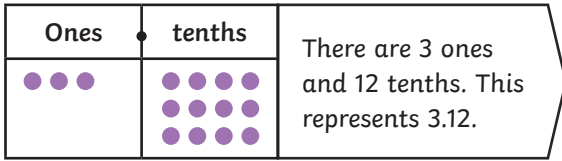 **a)** How many counters will she need to use?

  b) Prove it.

4) Draw the counters on the place value chart to match Oscar's description.

There are 9 counters on the left of the decimal point and 2 less counters than this on the right the decimal point.
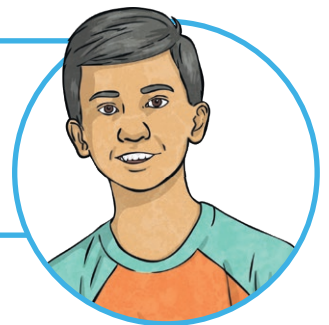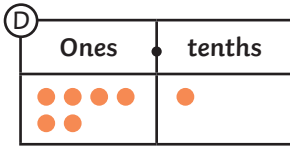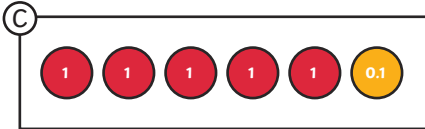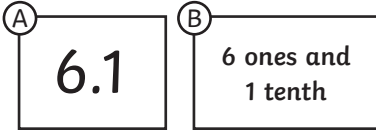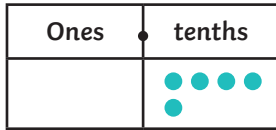
What is Oscar's number?

1) Explain and correct the mistake.

Ones	tenths
● ● ●	● ● ● ● ● ● ● ● ● ● ● ●

There are 3 ones and 12 tenths. This represents 3.12.

2) a) Explain which one is the odd one out and why.

Ⓐ
6.1

Ⓑ
6 ones and 1 tenth

Ⓒ
① ① ① ① ① 0.1

Ⓓ
Ones	tenths
● ● ● ● ● ●	●

b) How can you change the odd one out so it is the same?

3) What do you need to add so that the place grid represents a value of 1? Explain how you solved this.

Ones	tenths
	● ● ● ● ●

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1) Explain and correct the mistake.

Ones	tenths
● ● ●	● ● ● ● ● ● ● ● ● ● ● ●

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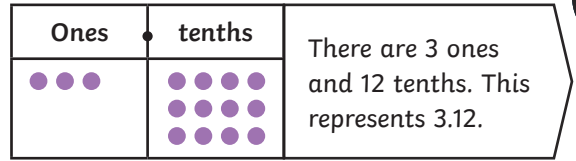| Ones	tenths
● ● ● ● ● ●	●

b) How can you change the odd one out so it is the same?

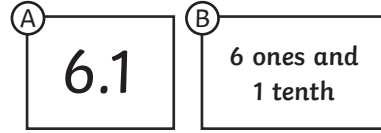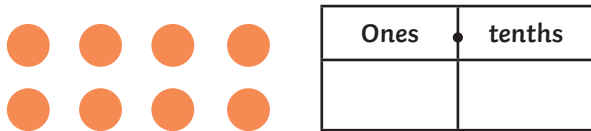**3)** What do you need to add so that the place grid represents a value of 1? Explain how you solved this.
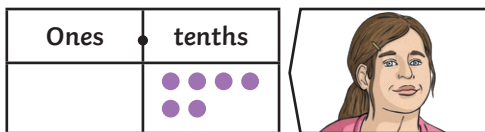
Ones	tenths
	● ● ● ● ●

1) Make as many decimal numbers as you can using all eight place value counters on this place value grid. Find all possibilities.

Ones	tenths

2) Look at Layla's place value chart. She was making a decimal number using 10 counters but 4 have slipped off her chart on to the floor.

What could the number have been? Find all 5 possible answers. Use the place value grid in question 1 to help you.

Ones	tenths
	● ● ● ● ● ●

3) Use the clues to help work out Simran's number.

I'm thinking of a decimal number. First, I subtract 5 tenths. Next, I add seven ones. Then, I halve it and my answer is 4.2. What was my original number?

4) True or false? Explain how you know.

8.3 is the same as six ones and twenty three tenths.

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1) Make as many decimal numbers as you can using all eight place value counters on this place value grid. Find all possibilities.

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Ones	tenths
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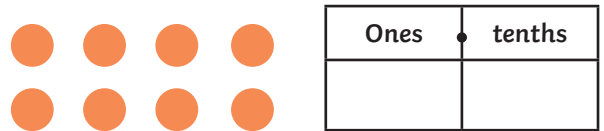
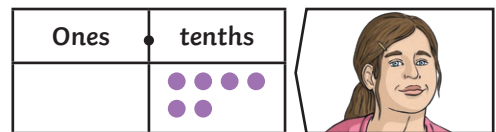**4)** True or false? Explain how you know.

8.3 is the same as six ones and twenty three tenths.