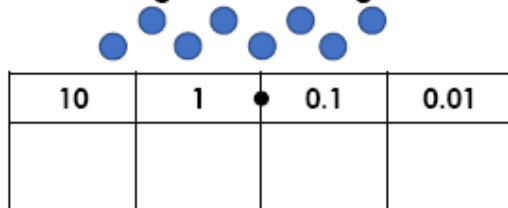


7a. Cam has divided a 2-digit number by 100. He has made his answer on the place value grid below using 8 counters.



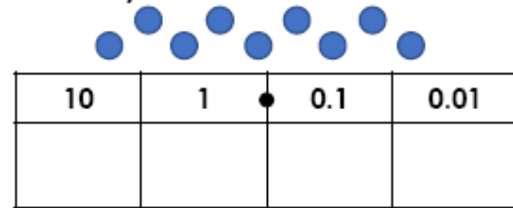
What could his calculation have be?

Write down 6 possible calculations including the answer.



PS

7b. Asa makes a 2-digit number on the place value chart using 9 counters and divides it by 100.



What could her calculation have be?

Write down 6 possible calculations including the answer.



PS

8a. Hassan has used the chart below to divide a 2-digit number by 100. He has put counters over the numbers in his answer.

10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

What was Hassan's original number?
Explain how you know.



R

8b. Livia has used the chart below to divide a 2-digit number by 100. She has put counters over the numbers in her answer.

10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

What was Livia's original number?
Explain how you know.



R

9a. True or false? Salim and Eloise's statements are correct.



Salim

I divided my number by 100 and my answer was 0.96 so my original number was a hundreds number.

96.0 is 100 times greater than 0.96.

Convince me!



Eloise



R

9b. True or false? Tyler and Samina's statements are correct.



Tyler

Seventy eight is 100 times bigger than seven hundred and eighty.

0.78 is one hundred times bigger than 78.0.

Convince me!



Samina

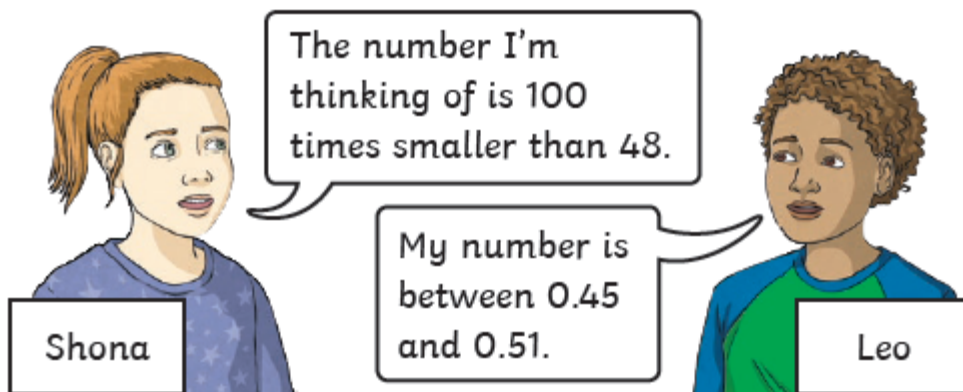


R

When a 2-digit number is divided by 100, the answer will always be greater than when a 1-digit number is divided by 100.



- 1) Is this statement always, sometimes or never true? Give 4 examples to show why you think this is so and explain your decision.
- 2) Two children are thinking of a number.



- a) Leo says that he definitely has the greater number. Shona says that you can't say who has the greater number from the information given. Who is correct? How do you know?
- b) If Leo does have the greater number, what number divided by 100 could give his answer?

- 1) Which do you think is most useful to help divide 1 and 2 digits by 100: a place value chart or a Gattegno grid? Explain your reasoning.



Gattegno Grid

hundreths	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
tenths	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
Ones	1	2	3	4	5	6	7	8	9
Tens	10	20	30	40	50	60	70	80	90

Place Value Chart

Tens	Ones	tenths	hundredths

- 2) Complete these calculations. Use the Gattegno grid for one and a place value chart for the other. Explain how you worked out the answers.

a) $76 \div 100$

b) $8 \div 100$

- 3) Write calculations to give the answers shown.

$\div 100 =$

- a) an answer less than 0.15
 b) an answer greater than 0.5
 c) an answer less than 0.24 and greater than 0.04