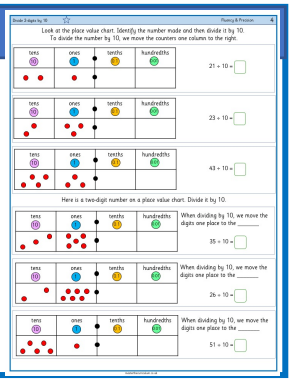
Divide 2-digits by 10

It is important for children to recognise the similarities and differences between the understanding of dividing by 10 and the more efficient method of moving digits. Children use a place value chart to see how 2 digit-numbers move when dividing by 10. They use counters to represent the digits before using actual digits within the place value chart.
On this sheet, children will divide 2-digit by 10 using place value charts.

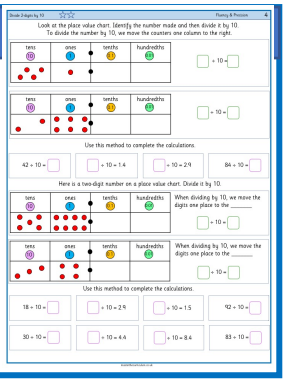
masterthecurriculum.co.uk



Divide 2-digits by 10

It is important for children to recognise the similarities and differences between the understanding of dividing by 10 and the more efficient method of moving digits. Children use a place value chart to see how 2 digit-numbers move when dividing by 10. They use counters to represent the digits before using actual digits within the place value chart.
On this sheet, children will divide 2-digits by 10 using place value charts and complete further calculations.

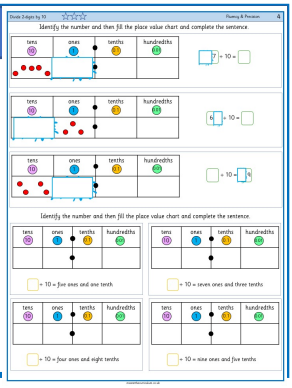
masterthecurriculum.co.uk



Divide 2-digits by 10

Children use counters to represent the digits before using actual digits within the place value chart. On this sheet, children will solve multistep questions involving dividing 2-digit numbers by 10. They find missing digits and identify tenths in written words.

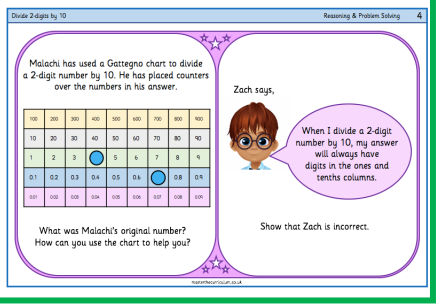
masterthecurriculum.co.uk



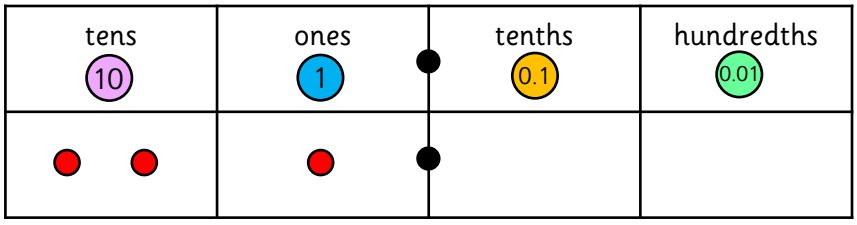
Reasoning & Problem Solving

Divide 2-digits by 10

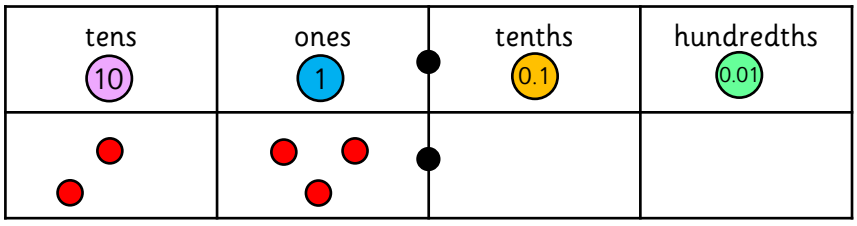
Children continue working on their understanding of dividing 2-digit numbers by 10 by answering reasoning questions.



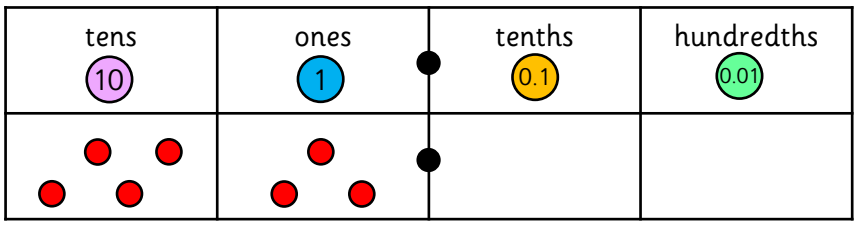
Look at the place value chart. Identify the number made and then divide it by 10.
To divide the number by 10, we move the counters one column to the right.



21 ÷ 10 = ☐

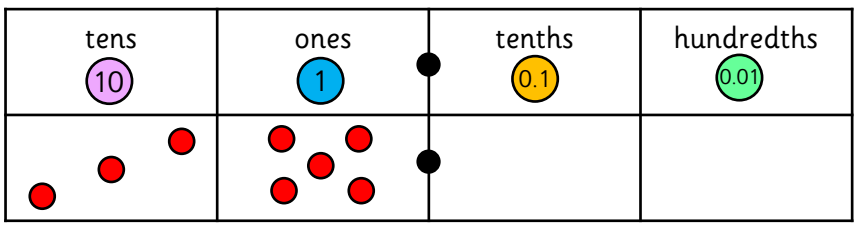


23 ÷ 10 = ☐



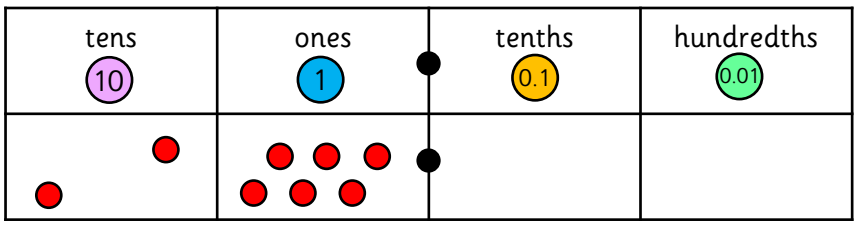
43 ÷ 10 = ☐

Here is a two-digit number on a place value chart. Divide it by 10.



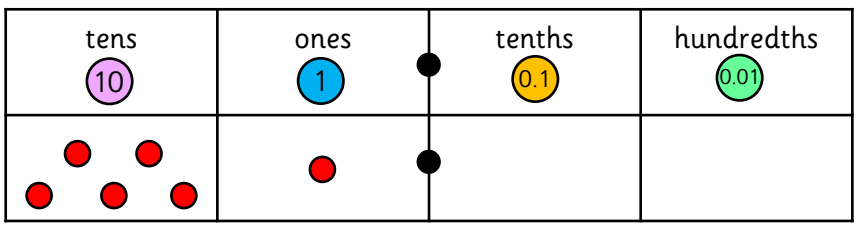
When dividing by 10, we move the digits one place to the _____

35 ÷ 10 = ☐



When dividing by 10, we move the digits one place to the _____

26 ÷ 10 = ☐



When dividing by

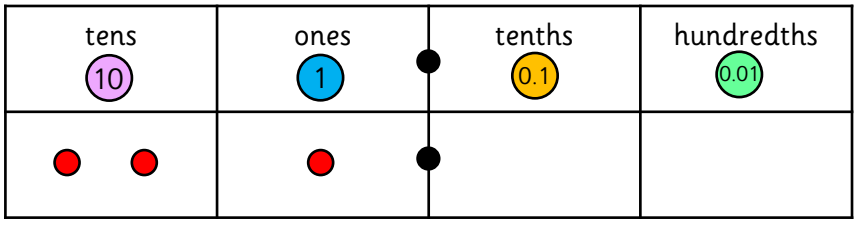
_____

_____

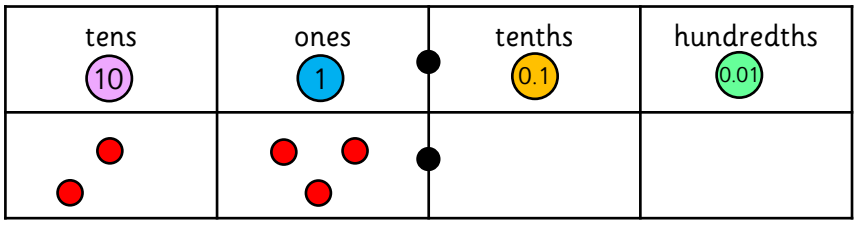
_____

51 ÷ 10 = ☐

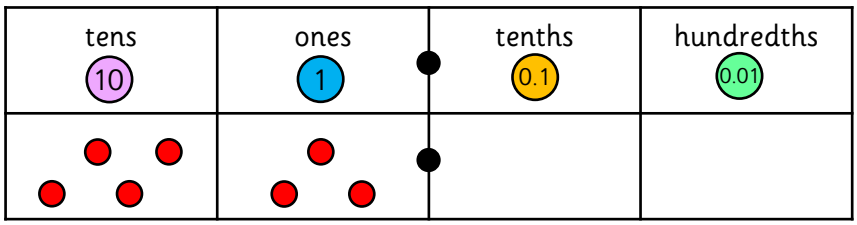
Look at the place value chart. Identify the number made and then divide it by 10.
To divide the number by 10, we move the counters one column to the right.



21 ÷ 10 = 2.1

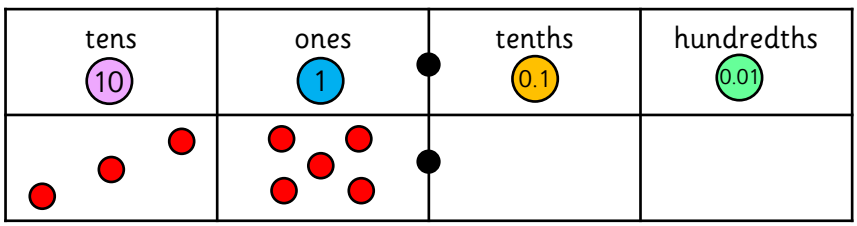


23 ÷ 10 = 2.3



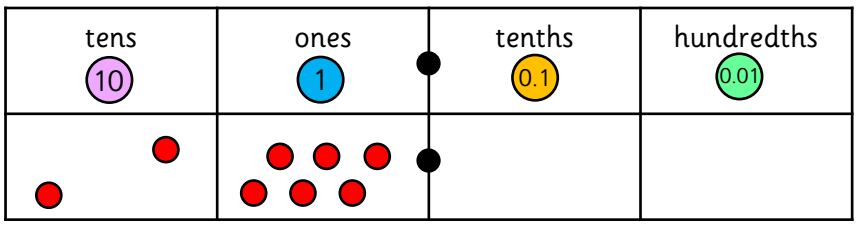
43 ÷ 10 = 4.3

Here is a two-digit number on a place value chart. Divide it by 10.



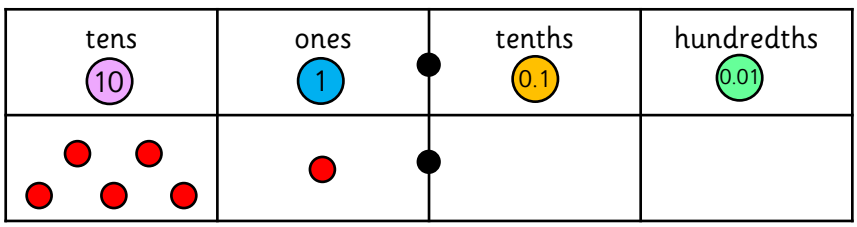
When dividing by 10, we move the digits one place to the right

35 ÷ 10 = 3.5



When dividing by 10, we move the digits one place to the right

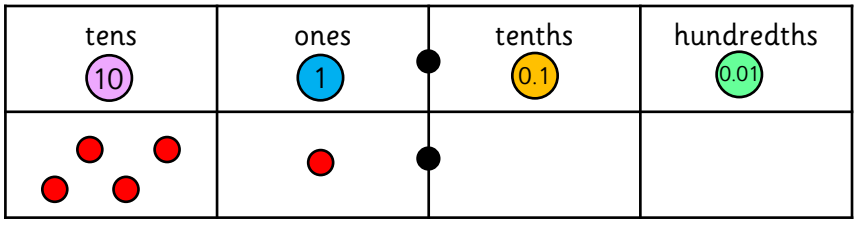
26 ÷ 10 = 2.6



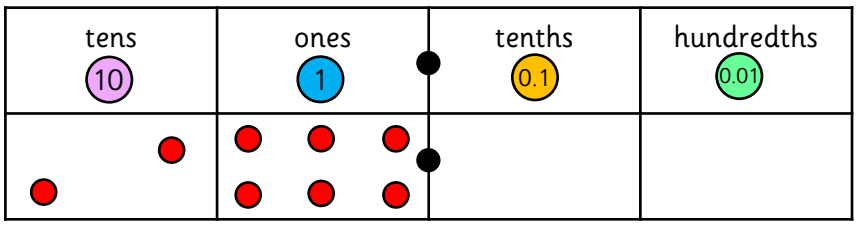
When dividing by 10, we move the digits one box to the right.

51 ÷ 10 = 5.1

Look at the place value chart. Identify the number made and then divide it by 10.
To divide the number by 10, we move the counters one column to the right.



□ ÷ 10 = □



□ ÷ 10 = □

Use this method to complete the calculations.

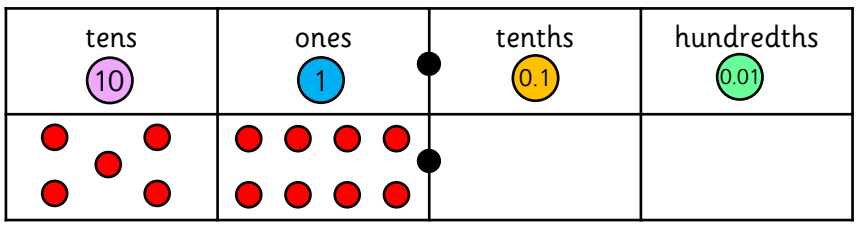
42 ÷ 10 = □

□ ÷ 10 = 1.4

□ ÷ 10 = 2.9

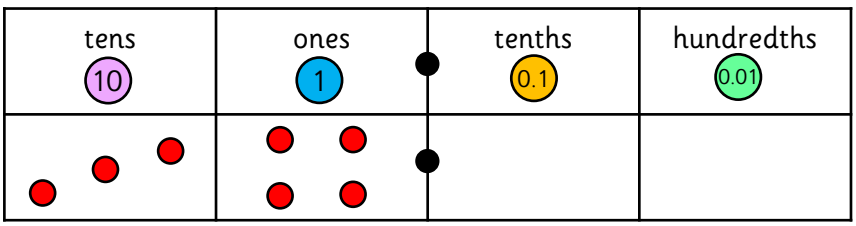
84 ÷ 10 = □

Here is a two-digit number on a place value chart. Divide it by 10.



When dividing by 10, we move the digits one place to the _____

□ ÷ 10 = □



When dividing by

_____

_____

_____

□ ÷ 10 = □

Use this method to complete the calculations.

18 ÷ 10 = □

□ ÷ 10 = 2.9

□ ÷ 10 = 1.5

92 ÷ 10 = □

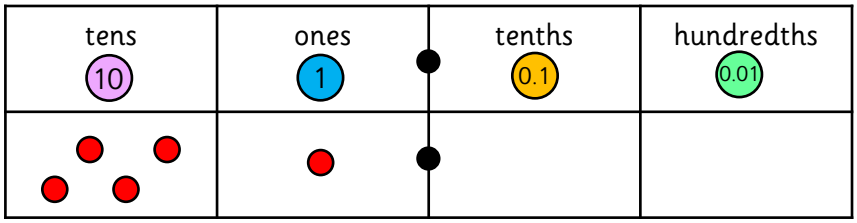
30 ÷ 10 = □

□ ÷ 10 = 4.4

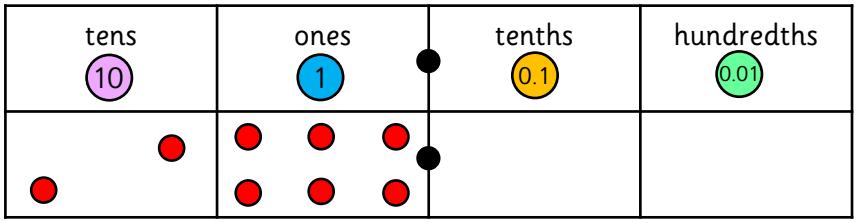
□ ÷ 10 = 8.4

83 ÷ 10 = □

Look at the place value chart. Identify the number made and then divide it by 10.
To divide the number by 10, we move the counters one column to the right.



41 ÷ 10 = 4.1



26 ÷ 10 = 2.6

Use this method to complete the calculations.

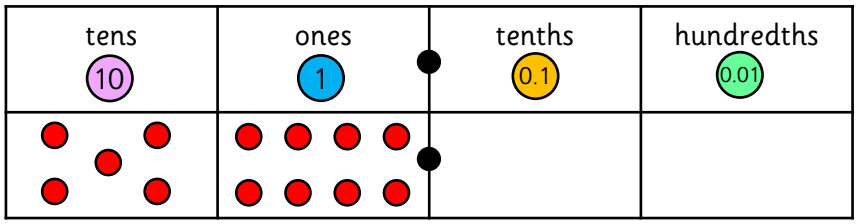
42 ÷ 10 = 4.2

14 ÷ 10 = 1.4

29 ÷ 10 = 2.9

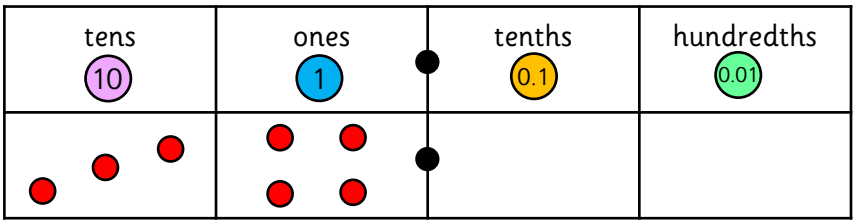
84 ÷ 10 = 8.4

Here is a two-digit number on a place value chart. Divide it by 10.



When dividing by 10, we move the digits one place to the right

58 ÷ 10 = 5.8



When dividing by 10, we move the digits one box to the right.

34 ÷ 10 = 3.4

Use this method to complete the calculations.

18 ÷ 10 = 1.8

29 ÷ 10 = 2.9

15 ÷ 10 = 1.5

92 ÷ 10 = 9.2

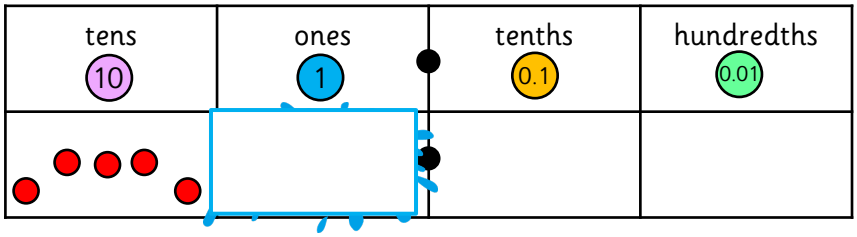
30 ÷ 10 = 3.0

44 ÷ 10 = 4.4

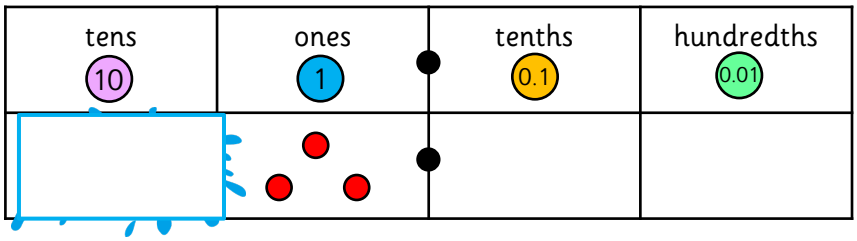
84 ÷ 10 = 8.4

83 ÷ 10 = 8.3

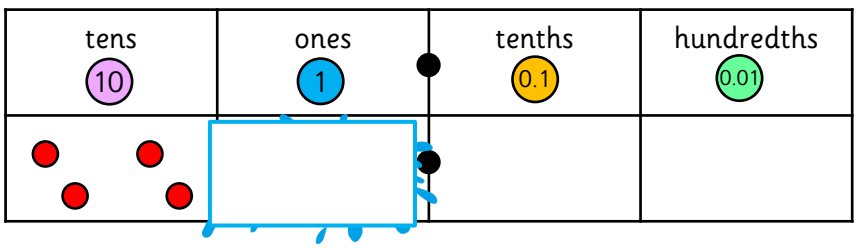
Identify the number and then fill the place value chart and complete the sentence.



□7 ÷ 10 = □

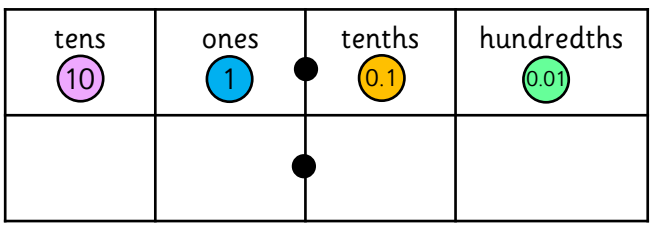


6□ ÷ 10 = □

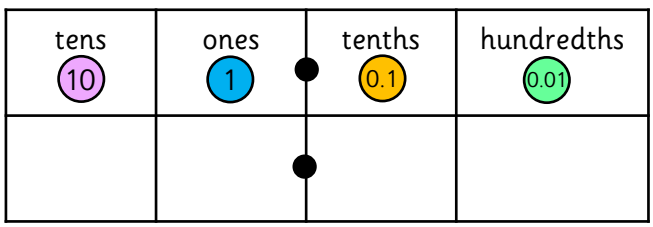


□ ÷ 10 = □.9

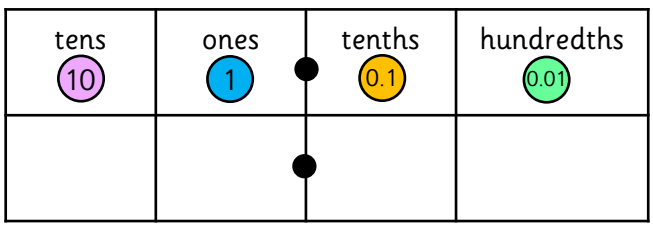
Identify the number and then fill the place value chart and complete the sentence.



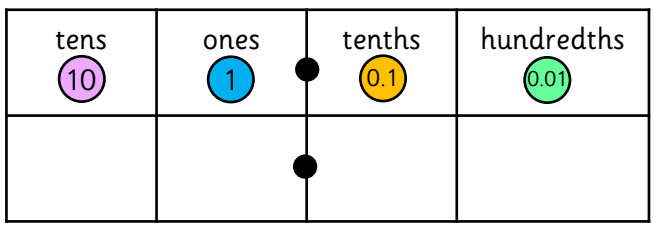
□ ÷ 10 = five ones and one tenth



□ ÷ 10 = seven ones and three tenths

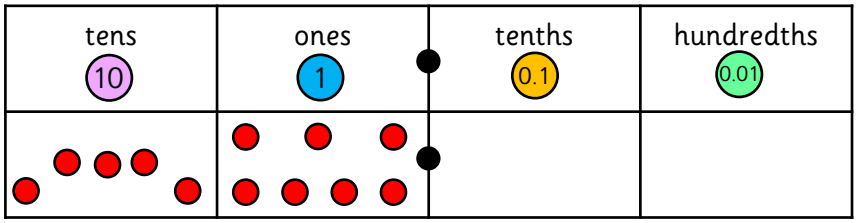


□ ÷ 10 = four ones and eight tenths

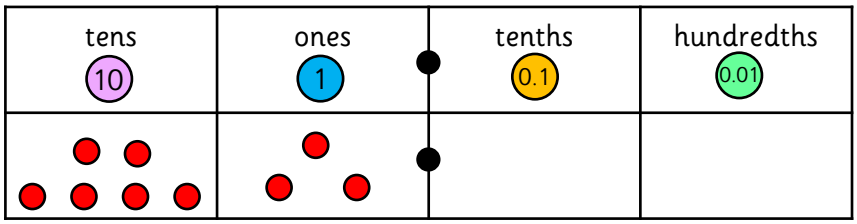


□ ÷ 10 = nine ones and five tenths

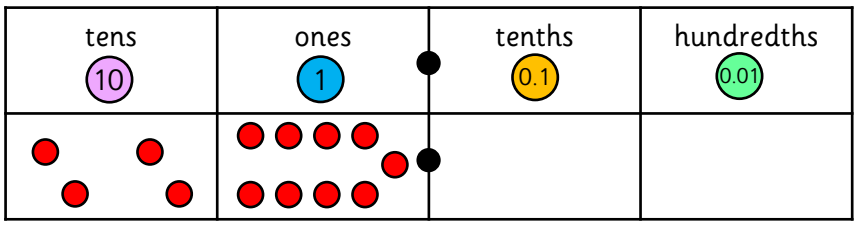
Identify the number and then fill the place value chart and complete the sentence.



57 ÷ 10 = 5.7

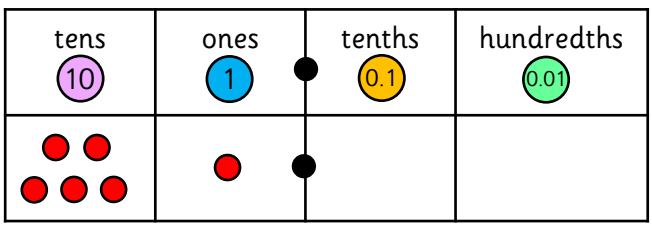


63 ÷ 10 = 6.3

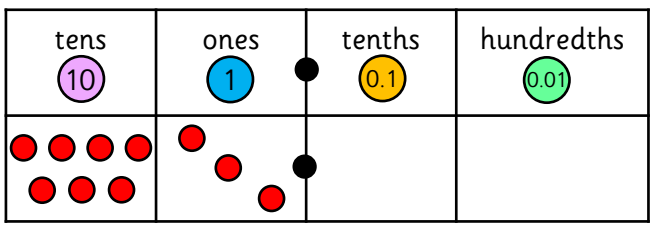


49 ÷ 10 = 4.9

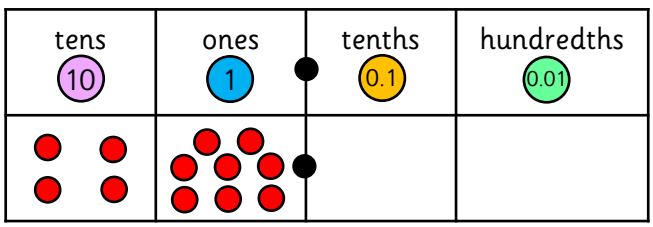
Identify the number and then fill the place value chart and complete the sentence.



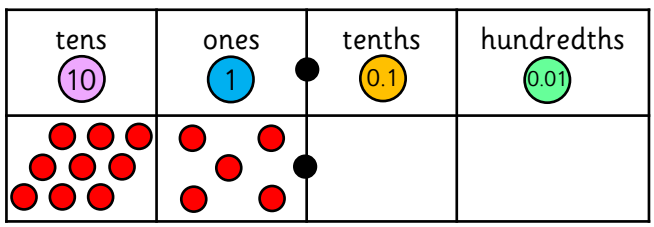
51 ÷ 10 = five ones and one tenth



73 ÷ 10 = seven ones and three tenths



48 ÷ 10 = four ones and eight tenths



95 ÷ 10 = nine ones and five tenths

Malachi has used a Gattegno chart to divide a 2-digit number by 10. He has placed counters over the numbers in his answer.

100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	●	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	●	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

What was Malachi's original number?
How can you use the chart to help you?

Zach says,

When I divide a 2-digit number by 10, my answer will always have digits in the ones and tenths columns.

Show that Zach is incorrect.

Divide 2-digits by 10 Reasoning & Problem Solving 4

Malachi has used a Gattegno chart to divide a 2-digit number by 10. He has placed counters over the numbers in his answer.

100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	●	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	●	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

What was Malachi's original number?
How can you use the chart to help you?

Zach says,

When I divide a 2-digit number by 10, my answer will always have digits in the ones and tenths columns.

Show that Zach is incorrect.

masterthecurriculum.co.uk

Malachi has used a Gattegno chart to divide a 2-digit number by 10. He has placed counters over the numbers in his answer.

100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	●	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	●	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

What was Malachi's original number?
How can you use the chart to help you?

Malachi's original number was 47.
You can move each counter up one to multiply them by 10, which is the inverse to division.

Zach says,

When I divide a 2-digit number by 10, my answer will always have digits in the ones and tenths columns.

Show that Zach is incorrect.

Children should give an example of when Zach is incorrect.
For example, when you divide 80 by 10, the answer is 8 so there does not need to be anything in the tenths column.

Divide 2-digits by 10 Answers Reasoning & Problem Solving 4

Malachi has used a Gattegno chart to divide a 2-digit number by 10. He has placed counters over the numbers in his answer.

100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	●	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	●	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

What was Malachi's original number?
How can you use the chart to help you?

Malachi's original number was 47.
You can move each counter up one to multiply them by 10, which is the inverse to division.

Zach says,

When I divide a 2-digit number by 10, my answer will always have digits in the ones and tenths columns.

Show that Zach is incorrect.

Children should give an example of when Zach is incorrect.
For example, when you divide 80 by 10, the answer is 8 so there does not need to be anything in the tenths column.

masterthecurriculum.co.uk