

★ Divide 1-digit by 10

Children need to understand when dividing by 10 the number is being split into 10 equal parts and is 10 times smaller. Children use counters on a place value chart to see how the digits move when dividing by 10. Children should make links between the understanding of dividing by 10 and this more efficient method. Emphasise the importance of 0 as a place holder. On this sheet, children will divide 1-digit by 10 using the pictorial images.

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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.

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

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

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

★★ Divide 1-digit by 10

Children need to understand when dividing by 10 the number is being split into 10 equal parts and is 10 times smaller. Children use counters on a place value chart to see how the digits move when dividing by 10. Children should make links between the understanding of dividing by 10 and this more efficient method. Emphasise the importance of 0 as a place holder. On this sheet, children will divide 1-digit by 10 using the pictorial images and also answer missing number problems.

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Use this method to complete the calculations.

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

Use this method to complete the calculations.

★★★ Divide 1-digit by 10

Children need to understand when dividing by 10 the number is being split into 10 equal parts and is 10 times smaller. On this sheet, children will solve multistep questions involving dividing 1-digit numbers by 10.

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

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

10 = four tenths

10 = two tenths less than eight tenths

Reasoning & Problem Solving

Divide 1-digit by 10

Children continue working on their understanding of dividing 1-digit numbers by 10 by answering reasoning questions.

Choose a digit card from 1 – 9 and place a counter over the top of that number on the Gattegno chart.

Zach says, "To divide by 10, you need to move the counters to the right. Do you agree? Use the Gattegno chart to explain your reason."

Complete the number sentences.

□ ÷ 10 = 16 ÷ 4 + 10

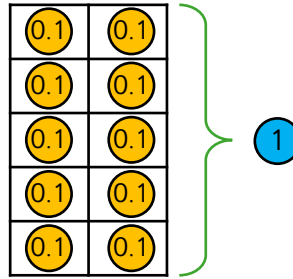
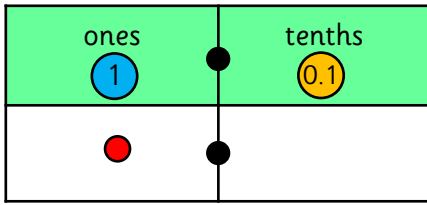
5 + 10 = 30 + □ ÷ 10

6 ÷ 10 = □ ÷ 9 + 10

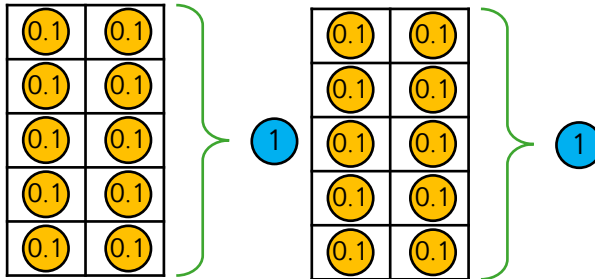
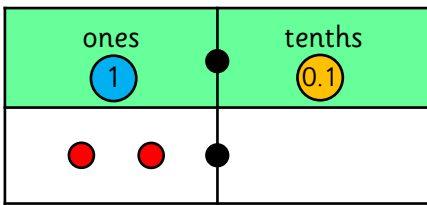
□ ÷ 7 + 10 = 32 ÷ 4 + 10



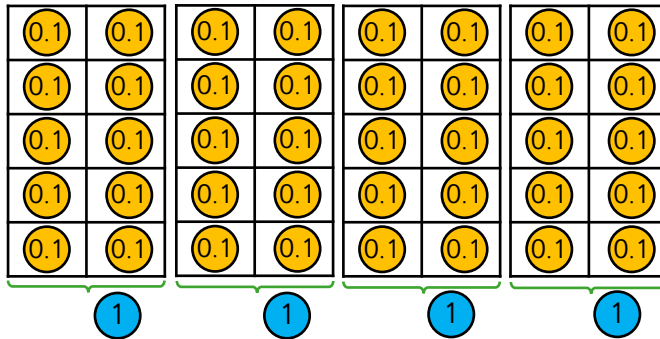
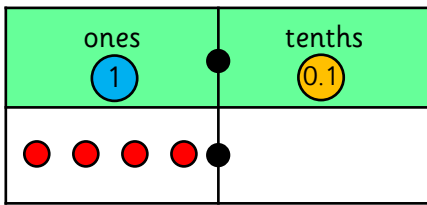
Look at the place value chart. Identify the number made and then divide it by 10.
To divide the number by 10, we move the counters one column to the right.



$1 \div 10 = \square$

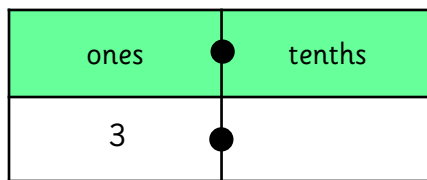


$2 \div 10 = \square$



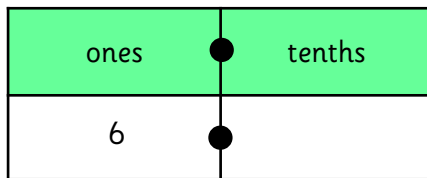
$4 \div 10 = \square$

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



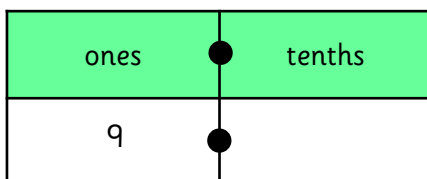
When dividing by 10, we move the digits one place to the _____.

$3 \div 10 = \square$



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

$6 \div 10 = \square$

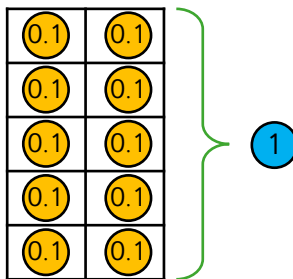
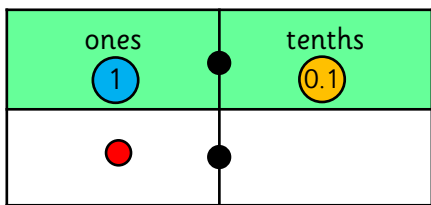


When dividing by _____

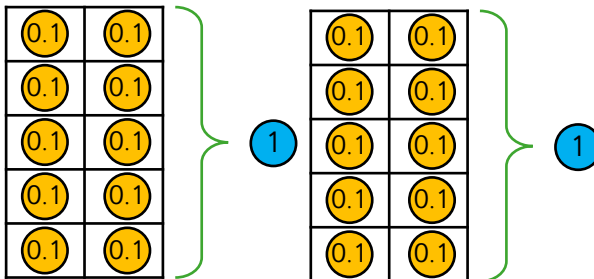
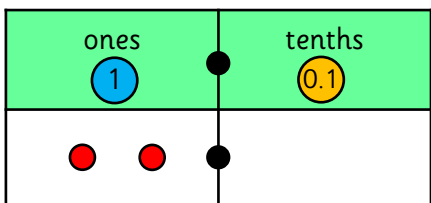
$9 \div 10 = \square$



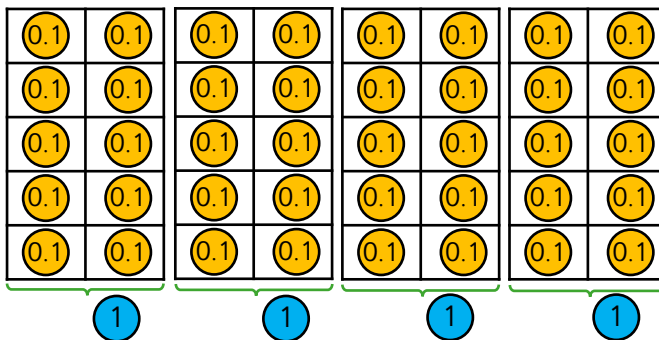
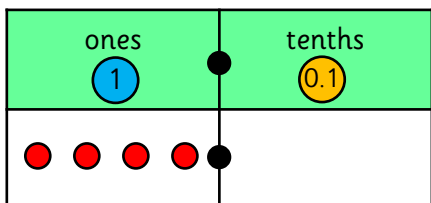
Look at the place value chart. Identify the number made and then divide it by 10.
To divide the number by 10, we move the counters one column to the right.



$$1 \div 10 = 0.1$$

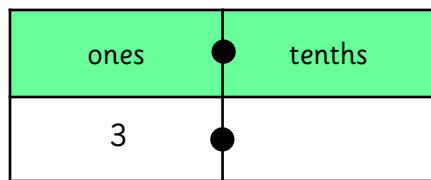


$$2 \div 10 = 0.2$$



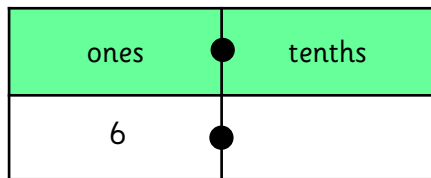
$$4 \div 10 = 0.4$$

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



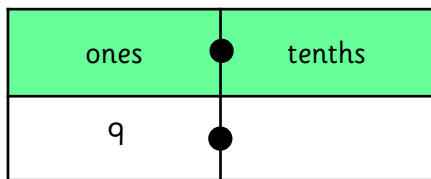
When dividing by 10, we move the digits one place to the right.

$$3 \div 10 = 0.3$$



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

$$6 \div 10 = 0.6$$

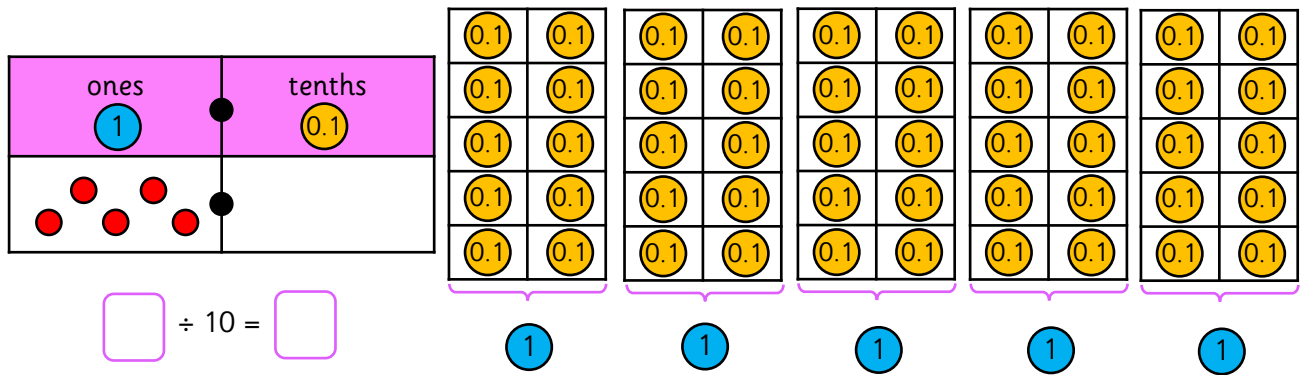
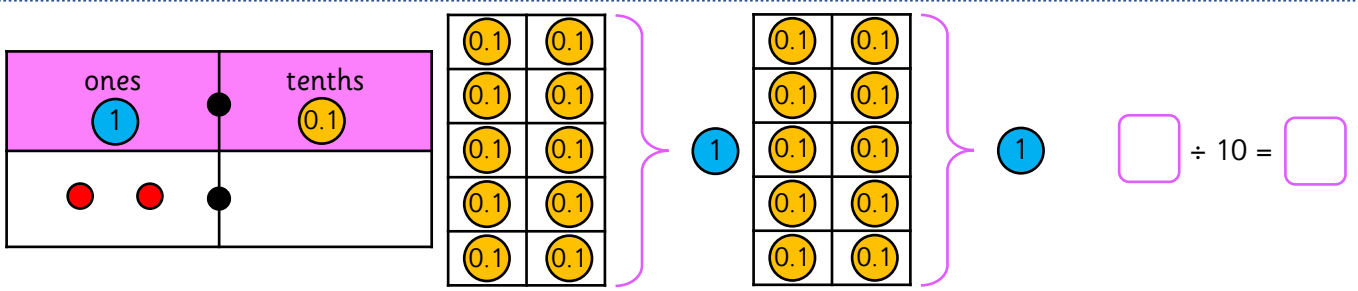


When dividing by 10, we move the digits one place to the right.

$$9 \div 10 = 0.9$$



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.



Use this method to complete the calculations.

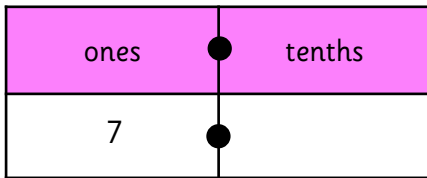
$6 \div 10 = \square$

$\square \div 10 = 0.7$

$\square \div 10 = 0.3$

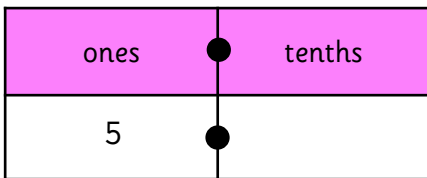
$8 \div 10 = \square$

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



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

$\square \div 10 = \square$



When dividing by _____

$\square \div 10 = \square$

Use this method to complete the calculations.

$3 \div 10 = \square$

$\square \div 10 = 0.4$

$\square \div 10 = 0.2$

$9 \div 10 = \square$



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.

ones	tenths
1	0.1
● ●	

0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1

}
}

0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1

1
1

2
 $\div 10 =$
0.2

ones	tenths
1	0.1
● ● ● ● ●	

0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1

0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1

0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1

0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1

0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1
0.1	0.1

1
1
1
1
1

5
 $\div 10 =$
0.5

Use this method to complete the calculations.

$6 \div 10 = 0.6$

$7 \div 10 = 0.7$

$3 \div 10 = 0.3$

$8 \div 10 = 0.8$

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

ones	tenths
7	

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

$7 \div 10 = 0.7$

ones	tenths
5	

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

$5 \div 10 = 0.5$

Use this method to complete the calculations.

$3 \div 10 = 0.3$

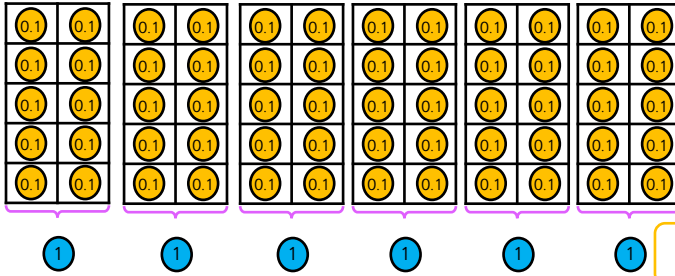
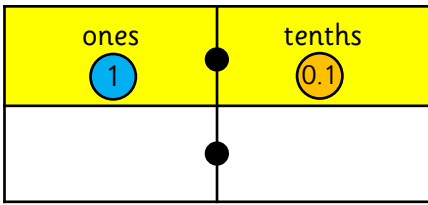
$4 \div 10 = 0.4$

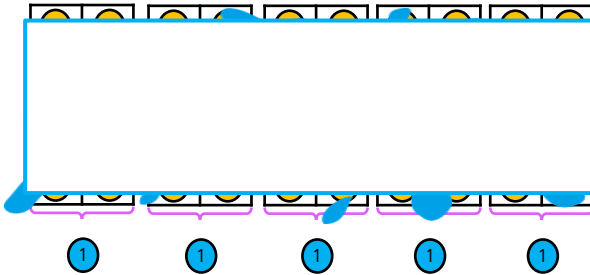
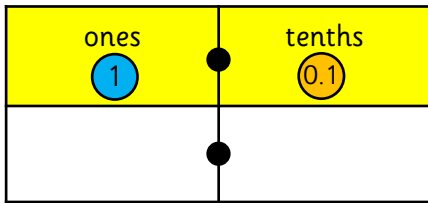
$2 \div 10 = 0.2$

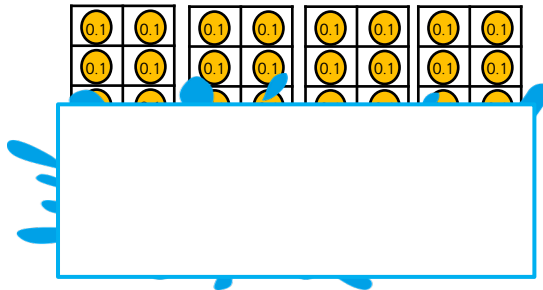
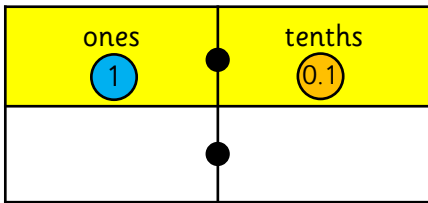
$9 \div 10 = 0.9$



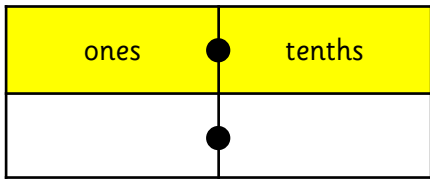
Identify the number and then fill the place value chart and complete the sentence.



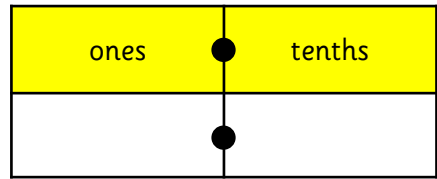




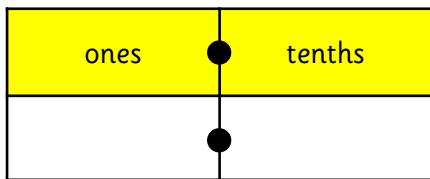
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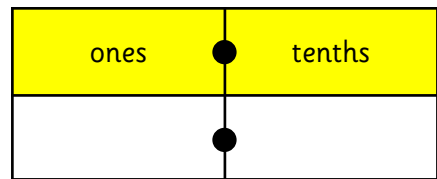
÷ 10 = nine tenths



÷ 10 = four tenths



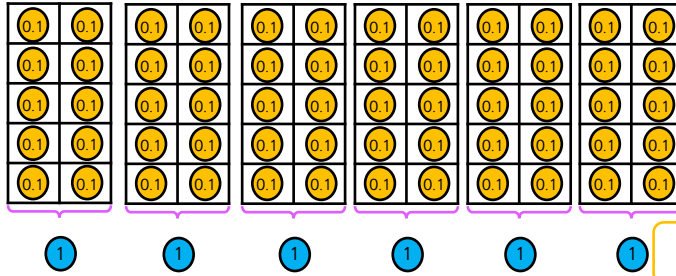
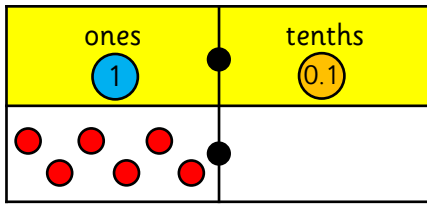
÷ 10 = five tenths more than three tenths



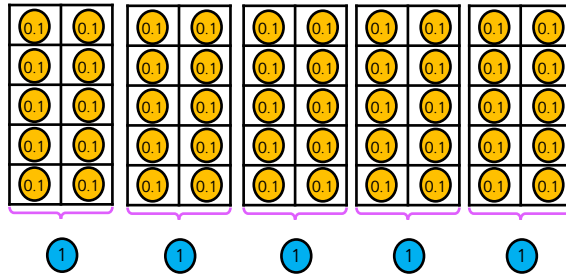
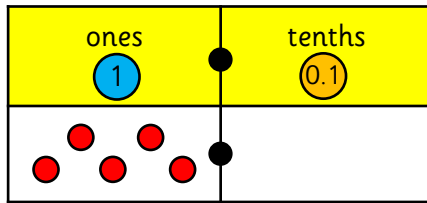
÷ 10 = two tenths less than eight tenths



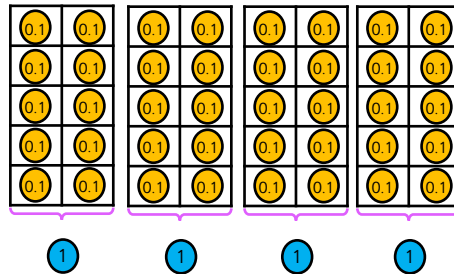
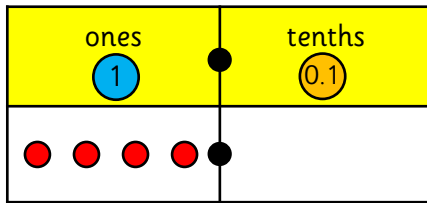
Identify the number and then fill the place value chart and complete the sentence.



$$6 \div 10 = 0.6$$

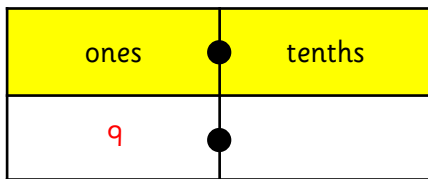


$$5 \div 10 = 0.5$$

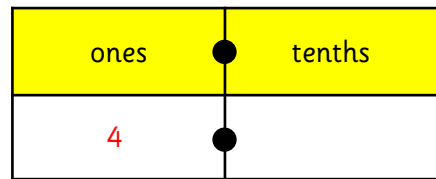


$$4 \div 10 = 0.4$$

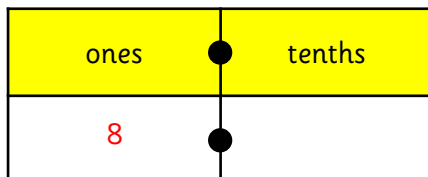
Identify the number and then fill the place value chart and complete the sentence.



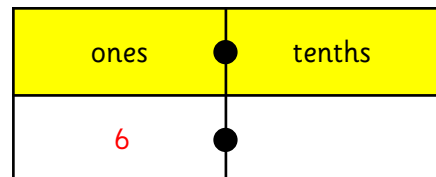
$$9 \div 10 = \text{nine tenths}$$



$$4 \div 10 = \text{four tenths}$$



$$8 \div 10 = \text{five tenths more than three tenths}$$



$$6 \div 10 = \text{two tenths less than eight tenths}$$

Choose a digit card from 1 – 9 and place a counter over the top of that number on the Gattegno chart.

100	200	300	400	500	600	700	800	900
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

Zach says,



To divide by 10, you need to move the counters to the right.

Do you agree?
Use the Gattegno chart to explain your reason.

Complete the number sentences.

$$\square \div 10 = 16 \div 4 \div 10$$

$$5 \div 10 = 30 \div \square \div 10$$

$$6 \div 10 = \square \div 9 \div 10$$

$$\square \div 7 \div 10 = 32 \div 4 \div 10$$

Choose a digit card from 1 – 9 and place a counter over the top of that number on the Gattegno chart.

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0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

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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

Zach says,



To divide by 10, you need to move the counters to the right.

Zach is incorrect. Children will see that you move down one row to divide by 10 on a Gattegno chart.

Complete the number sentences.

$$4 \div 10 = 16 \div 4 \div 10$$

$$5 \div 10 = 30 \div 6 \div 10$$

$$6 \div 10 = 54 \div 9 \div 10$$

$$56 \div 7 \div 10 = 32 \div 4 \div 10$$

Choose a digit card from 1 – 9 and place a counter over the top of that number on the Gattegno chart.

100	200	300	400	500	600	700	800	900
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

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$$56 \div 7 \div 10 = 32 \div 4 \div 10$$