Maths

Fractions

Dividing by 10

Aim

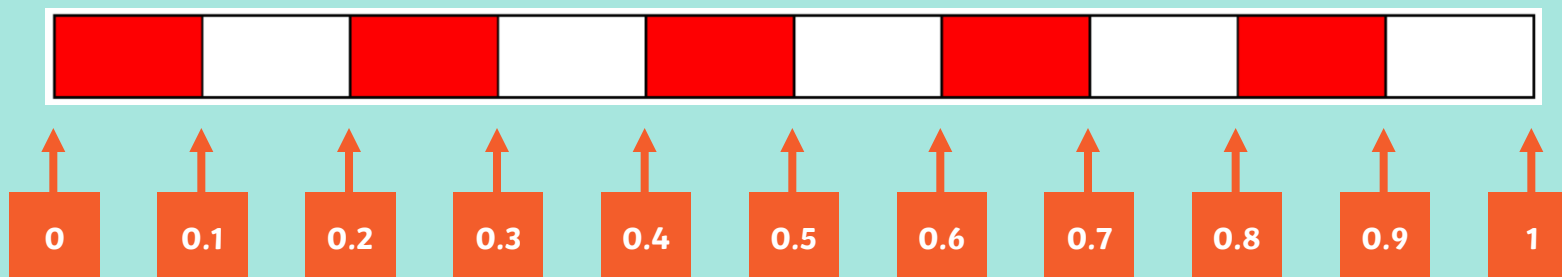- I can divide a one- or two-digit number by 10.

Success Criteria

- I can divide a one-digit number by 10.

- I can divide a two-digit number by 10.

- I can identify digits as ones, tenths and hundredths.

Decimal Counting

If the counting stick represents 0-1, what would the value of the midpoint be as a decimal number?
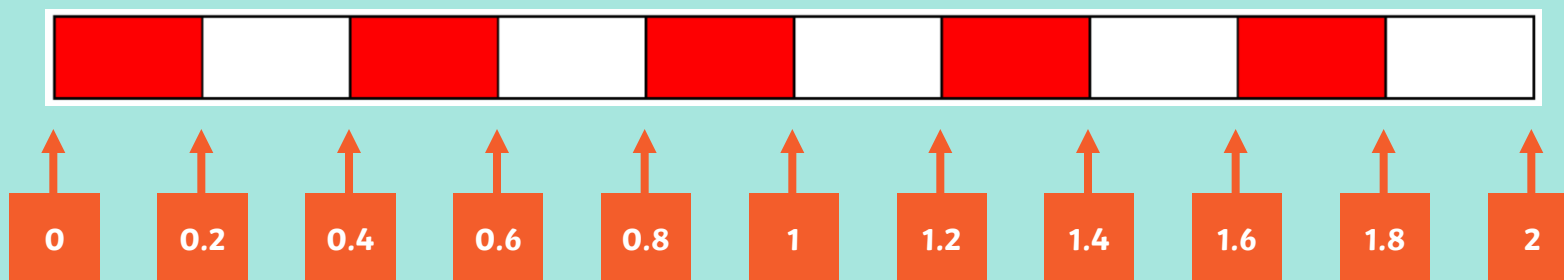
| 0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1 |

If we continue counting in tenths, what would come next?

Decimal Counting

If this point is now 1, how much is each interval worth?

| 0 | 0.2 | 0.4 | 0.6 | 0.8 | 1 | 1.2 | 1.4 | 1.6 | 1.8 | 2 |

If each interval is worth 0.3, complete the number line.

| 0 | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3 |

Place Value

× 10   × 10   × 10   × 10

		Ones	•	
?	?		?	?

÷ 10   ÷ 10   ÷ 10   ÷ 10
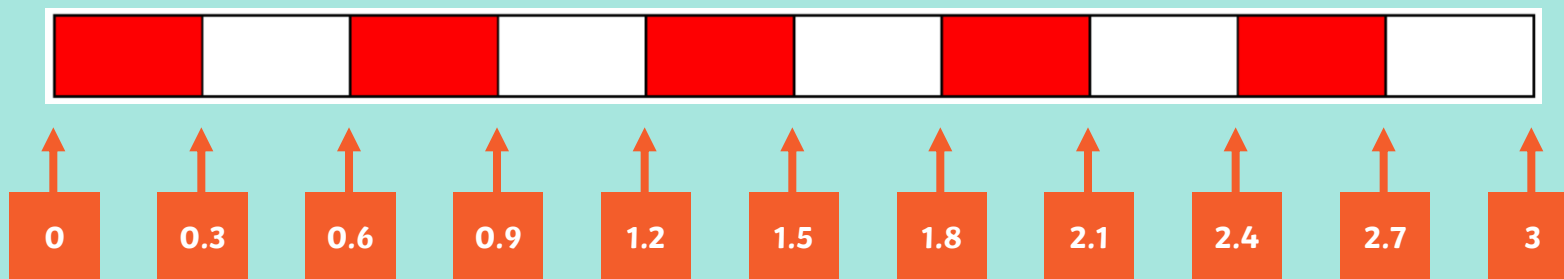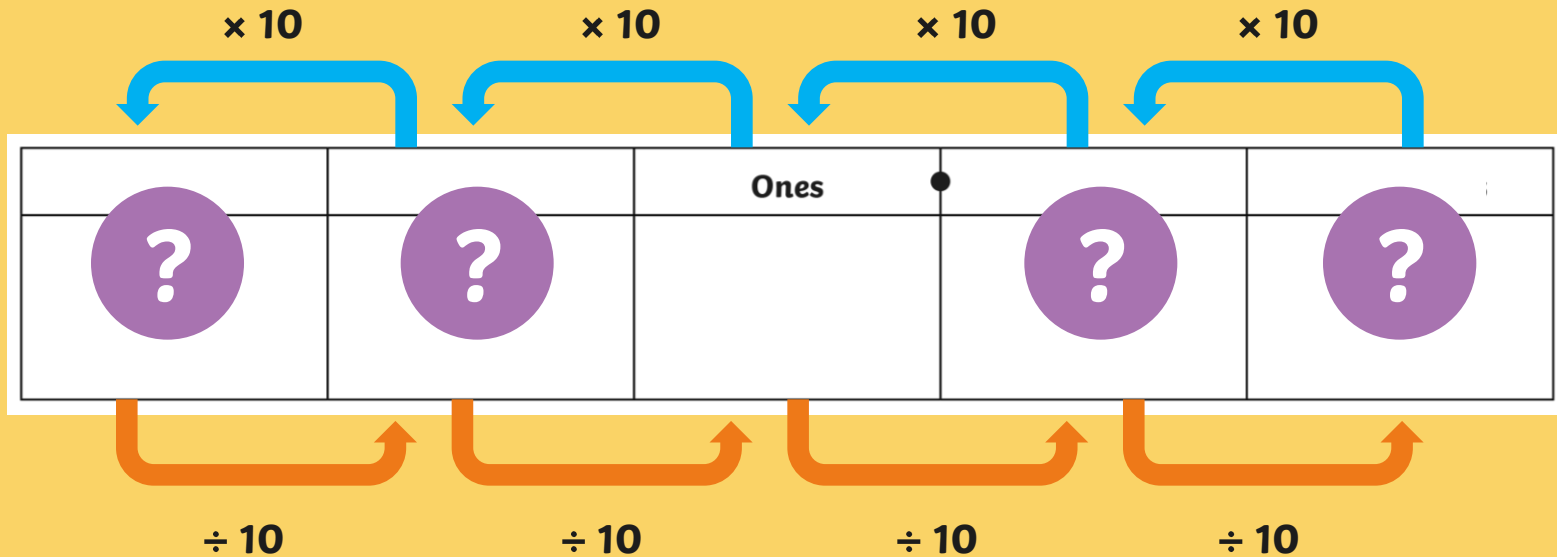
If this column represents ones, what does this column represent?
What happens as we move across the columns?
How do you know?

Place Value

Put the numbers on the place value grid.
How much is each digit worth?

64.07

Hundreds	Tens	Ones	•	tenths	hundredths
	6	4	•	0	7

Dividing by 10

Hundreds	Tens	Ones	•	tenths	hundredths
		6 •			

÷ 10

6 ÷ 10 = 0.6

Dividing by 10

Hundreds	Tens	Ones	•	tenths	hundredths
		3 •	•		

÷ 10

3 ÷ 10 = 0.3

Dividing by 10

Hundreds	Tens	Ones	tenths	hundredths
	2	7 •		

÷ 10   ÷ 10

27 ÷ 10 = 2.7

Dividing by 10

Hundreds	Tens	Ones	tenths	hundredths
	8	9 •		

÷ 10   ÷ 10

89 ÷ 10 = 8.9

Dividing by 10

Hundreds	Tens	Ones	tenths	hundredths
	4	5 •		

÷ 10   ÷ 10

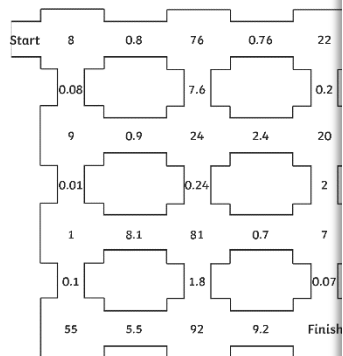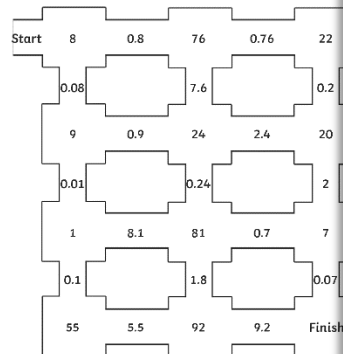## 45 ÷ 10 = 4.5

Maze

Dividing by Tens Maze

Find your way through the maze by dividing the numbers by 10 to find o...

Use the place value grids to help you to divide by 10 and to show your a...

Start	8	0.8	76	0.76	22
0.08		7.6		0.2	
9	0.9	24	2.4	20	
0.01		0.24		2	
1	8.1	81	0.7	7	
0.1		1.8		0.07	
55	5.5	92	9.2	Finish	

Which of the answers have nine ones in them? _____

Which of the answers have seven tenths in them? _____

Which of the answers have one tenth in them? _____

Which of the answers have two ones in them? _____

Dividing by Tens Maze

Find your way through the maze by dividing the numbers by 10 to find o...

Use a place value grid to help you to work out the answers and record th...
each step.

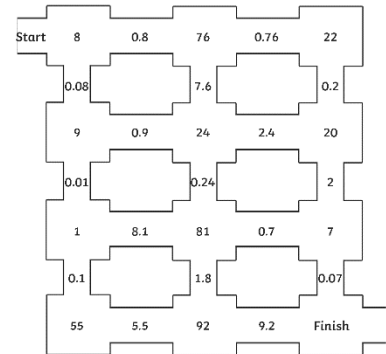| Start	8	0.8	76	0.76	22
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9	0.9	24	2.4	20	
0.01		0.24		2	
1	8.1	81	0.7	7	
0.1		1.8		0.07	
55	5.5	92	9.2	Finish	

8 ÷ 10 = ☐   ☐ ÷ 10 = ☐

☐ ÷ 10 = ☐   ☐ ÷ 10 = ☐

☐ ÷ 10 = ☐   ☐ ÷ 10 = ☐

Which of the answers have nine ones in them? _____

Which of the answers have seven tenths in them? _____

Which of the answers have one tenth in them? _____

Which of the answers have two ones in them? _____

Dividing by Tens Maze

Find your way through the maze by dividing the numbers by 10 to find out which way to go next.

Record the calculations you do for each step.

Start	8	0.8	76	0.76	22
0.08		7.6		0.2	
9	0.9	24	2.4	20	
0.01		0.24		2	
1	8.1	81	0.7	7	
0.1		1.8		0.07	
55	5.5	92	9.2	Finish	

8 ÷ 10 = ☐   ☐ ÷ 10 = ☐   ☐ ÷ 10 = ☐

☐ ÷ 10 = ☐   ☐ ÷ 10 = ☐   ☐ ÷ 10 = ☐

☐ ÷ 10 = ☐   ☐ ÷ 10 = ☐   ☐ ÷ 10 = ☐

Which of the answers have nine ones in them? _____

Which of the answers have seven tenths in them? _____

Which of the answers have one tenth in them? _____

Which of the answers have two ones in them? _____

Guess the Number

When it's divided by 10, there are... tenths

When it's divided by 10, there are... ones

When it's divided by 10, the answer is...

There are... tenths

There are... tens

There are... ones

Aim

- I can divide a one- or two-digit number by 10.

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