

KIRF: I can multiply and divide a single digit by 10 & 100

This half term, the children will be learning how to multiply and divide a single digit by 10 and 100. The aim is for them to be able to recall these facts instantly.



Questions to ask at home

What is 5 multiplied by 10? **50**

What is 10 times 0.8? **8**

What is 800 divided by 100? **8**

Key vocabulary

7 multiplied by 100 is equal to 700

120 shared by 10 is equal to 1.2

132 divided by 12 equals 11

0.6 is zero ones and six tenths

One tenth and four hundredths is 0.16

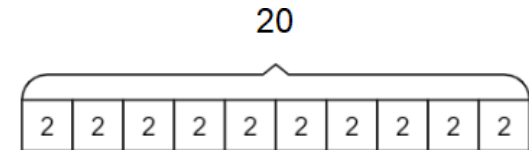
What can this look like?

Concrete:



$$10 \times 3 = 30$$

Pictorial:



$$2 \times 10 = 20$$

Abstract:

$$8 \times \bigcirc = 800$$

$$\bigcirc \div 10 = 0.5$$

Things to try

1000	100	10	1	.	$\frac{1}{10}$	$\frac{1}{100}$
				.		
				.		
				.		
				.		
				.		

Why not use/draw out a place value chart like this one to help.

Remember when multiplying, the digits move to the left.

When dividing, the digits move to the right.

<https://www.topmarks.co.uk/Flash.aspx?f=bingotimesordivide>

Try this website for an interactive Bingo game.

Some examples of questions

$$7 \times 10 = 70$$

$$30 \times 10 = 300$$

$$0.8 \times 10 = 8$$

$$10 \times 7 = 70$$

$$10 \times 30 = 300$$

$$10 \times 0.8 = 8$$

$$70 \div 7 = 10$$

$$300 \div 30 = 10$$

$$8 \div 0.8 = 10$$

$$70 \div 10 = 7$$

$$300 \div 10 = 30$$

$$8 \div 10 = 0.8$$

$$6 \times 100 = 600$$

$$40 \times 100 = 4000$$

$$0.2 \times 10 = 2$$

$$100 \times 6 = 600$$

$$100 \times 40 = 4000$$

$$10 \times 0.2 = 2$$

$$600 \div 6 = 100$$

$$4000 \div 40 = 100$$

$$2 \div 0.2 = 10$$

$$600 \div 100 = 6$$

$$4000 \div 100 = 40$$

$$2 \div 10 = 0.2$$