

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?
- What is 10 **times** 0.8?
- What is 800 **divided by** 100?

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

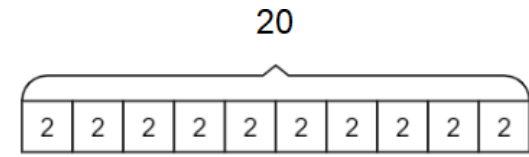
What can this look like?

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

$7 \times 10 = 70$	$30 \times 10 = 300$	$0.8 \times 10 = 8$
$10 \times 7 = 70$	$10 \times 30 = 300$	$10 \times 0.8 = 8$
$70 \div 7 = 10$	$300 \div 30 = 10$	$8 \div 0.8 = 10$
$70 \div 10 = 7$	$300 \div 10 = 30$	$8 \div 10 = 0.8$
$6 \times 100 = 600$	$40 \times 100 = 4000$	$0.2 \times 10 = 2$
$100 \times 6 = 600$	$100 \times 40 = 4000$	$10 \times 0.2 = 2$
$600 \div 6 = 100$	$4000 \div 40 = 100$	$2 \div 0.2 = 10$
$600 \div 100 = 6$	$4000 \div 100 = 40$	$2 \div 10 = 0.2$