KIRF: Multiply & divide decimals by 10, 100 & 1000



Pupils should be able to multiply & divide decimals by 10, 100 & 1000 quickly.

Some example questions

Questions to ask at home

What is 0.56 multiplied by 1000?

What is 100 times 2.7?

What is 700 divided by 1000?

Key vocabulary

7.2 multiplied by 1000 is equal to 7200

120 **shared by** 100 is equal to 1.2

50 divided by 100 equals 0.5

What can this look like?

- **II** Multiplying by 10, 100 or 1000
- 👉 One place for each zero
- ×10 → move digits 1 place left
- ×100 → move digits 2 places left
- ×1000 → move digits 3 places left

- + Dividing by 10, 100 or 1000
- f Move digits to the right
- ÷10 → move digits 1 place right
- ÷100 → move digits 2 places right
- ÷1000 → move digits 3 places right

Things to try

Dice Game: You'll need: Two dice (or use an online dice roller) How to play:

- 1. Roll two dice to create a decimal number (e.g., 3 and 2 = 3.2).
- 2. Take turns multiplying the number by 10, 100 or 1000. e.g. " $3.2 \times 1000 = 3200$ ".

Websites:

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