

Arithmetic

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Multiplying decimals by 10

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When multiplying a decimal number by 10, the value of each digit is multiplied by 10.

Each digit moves 1 place to the left because multiplying by 10 increases the number.

$$3.4 \times 10 = 34$$

	3	.	4
3	4	.	←

Remember:

1. Keep the digits together.

Don't let any 0s jump in!

$$3.4 \times 10 = 3\cancel{.}4$$

2. Round to check:

$$3.4 \times 10 = 34$$

$$\text{use } 3 \times 10 = 30$$

Top tips:

Line up your decimal point first.

Digits move **one place to the left**.

Now try these:

a) $4.2 \times 10 =$

b) $32.8 \times 10 =$

c) $20.45 \times 10 =$

d) $5.08 \times 10 =$

e) $10.02 \times 10 =$

f) $40.80 \times 10 =$

g) $100.51 \times 10 =$

h) $78.009 \times 10 =$

i) $8009.04 \times 10 =$

j) $5090.01 \times 10 =$

Remember to estimate to check your answer is correct.