Guide to: Multiplication

maths Links

Explanation:

For long multiplication, multiply the top number by the units digit first, then put a placeholder **0** in the units column on the second row before multiplying by the tens digit. Add the two rows together carefully to get the final product.

To multiply decimals, ignore the decimal points at first and multiply the whole numbers. Count the total number of digits after the decimal point in the original question, and place the decimal point in your answer so it has the exact same number of decimal places.

Example 1: Work out 347 × 26

Solution:

```
   3 4 7
×    2 6
-------
   2 0 8 2
+ 6 9 4 0
-------
   9 0 2 2
-------
```

Row 1: 347 × 6 = 2082
Row 2: Put **0**, then 347 × 2 = 6940
Add rows: 2082 + 6940 = 9022

Answer: 9022

Example 2: Work out 4.8 × 0.35

Solution:

Step 1: Remove decimals → work out **48 × 35**
- 48 × 5 = 240 and 48 × 30 = 1440
- 240 + 1440 = **1680**

Step 2: Count decimal places in the question:
- 4.8 (1 d.p.) and 0.35 (2 d.p.) → **3 d.p.** in total
- 1680 with 3 d.p. is 1.680 = **Answer: 1.68**

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