**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Multiplying Decimals**

**Starter**

Work out:

1) 18 x 4 = 2) 1.8 x 4 =

3) 53 x 3 = 4) 5.3 x 3 =

5) 25 x 8 = 6) 25 x 0.8 =

Multiplying decimals is just like multiplying whole numbers, but with a slight twist:

1. Count up how many *digits* are after the decimal points in your question.
2. Multiply the numbers, ignoring the decimal point.
3. Give your answer with the same number of digits after the decimal point.

**Example**

Question: Calculate 6.31 x 5.6

There are *3* digits after a decimal point – 3, 1 and 6.

We work out **631 x 56**.

|  |  |  |  |
| --- | --- | --- | --- |
|  X | **600** | **30** | **1** |
| **50** | 30000 | 1500 | 50 |
| **6** | 3600 | 180 | 6 |

30000 + 1500 + 50 + 3600 + 180 + 6 = 35336

Our answer needs 3 digits after the decimal point, so the answer is **35.336.**

**Questions**

Calculate

1. 3.6 x 4.2 2. 8.3 x 2.7

Number of digits after dp =

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  X | 40 | 2 |  |  X | 20 | 7 |
| 30 |  |  |  | 80 |  |  |
| 6 |  |  |  | 3 |  |  |