Multiplying Decimals by Decimals

To multiply decimals by decimals, multiply the same way as whole numbers. Place the decimal point in the product by counting the number of decimal places in each factor. The product will have the same number of decimal places.

Remember, sometimes you might need to write a zero in the product in order to place the decimal point correctly.

Find: 0.92 × 15.4

Multiply. Write the decimal point in the product.

```
  0.92        2 places
 ×15.4        +1 place
  368
 460
092
14.168        3 places
```

Find: 0.49 × 0.05

Multiply. Write the decimal point in the product.

```
  0.49        2 places
× 0.05        +2 places
  245
  000
0.0245        4 places
```

Write a zero.

Multiply. Write zeros as needed.

	a	b	c	d
1.	0.5 × 0.8 = 0.40	0.6 × 0.9	5.2 × 0.7	9.6 × 0.4
2.	0.62 × 0.5	0.12 × 0.3	0.05 × 0.6	0.16 × 0.2
3.	0.48 × 6.95	0.76 × 43.5	0.56 × 9.12	0.24 × 18.7

Line up the digits. Then find the products. Write zeros as needed.

4. a: 0.137 × 0.06 = _____ b: 1.284 × 0.48 = _____ c: 4.507 × 0.52 = _____

```
 0.137
×0.06
```

LIVEWORKSHEETS