## Decimal Place

4.32567

The first number after the decimal point is called the first decimal place.

Each number has a position after the decimal point. 6 is the $4^{\text {th }}$ number after the decimal point so 6 is in the $4^{\text {th }}$ decimal place.

## Subtraction and Addition

The method for adding and subtracting decimals is the same as when you add and subtract whole numbers. Just make sure your decimal points line up.
$6.22+32.67$

| $6 \cdot 2$ |
| ---: |
| $+\quad 3 \quad 2 \cdot 6 \quad 7$ |
| $38 \cdot 89$ |

$$
6.22+32.67=38.89
$$

$53.25-41.17$

| 5 | $3 \cdot 2^{1}$ | 5 |
| ---: | ---: | ---: |
| $-\quad 4$ | $2 \cdot 1$ | 7 |
| 1 | $1 \cdot 0$ | 8 |

$$
53.25-41.17=11.08
$$

## Multiplying Decimals

## $6.3 \times 5.9$

When multiplying decimals. Always start off with an approximation:

$$
6.3 \times 5.9 \approx 6 \times 6=36
$$

Then multiply the numbers together without the decimal points. $63 \times 59$

|  |  |  | 6 | 3 |
| :---: | :---: | :---: | :---: | :---: |
|  | $\times$ |  | 5 | 9 |
|  |  | 5 | 6 2 | 7 |
| + | 3 | 1 | 5 | 0 |
|  | 3 | 7 | 1 | 7 |

Given our estimate was 36 , and we have worked out $65 \times 59=3717$, we can compare these and say that our answer is 37.17 .
$6.3 \times 5.9=37.17$

Dividing Decimals

## $155.45 \div 0.2$

$\times 10$
$155.45 \div 0.2=\frac{155.45}{0.2_{\times 10}}=\frac{1554.5}{2}$

$155.45 \div 0.2=777.25$

If dividing by a decimal, multiply the numerator and denominator by 10 to leave a whole number in the denominator.

Once you have done that you can use the 'bus stop method'

