Rounding

Round to decimal places d.p.

36.34863434 to 2 d.p.

36.34863434 to 2 d.p.

Cut | **Look at next**

If 5,6,7,8,9 round up

= 36.35 **If 0,1,2,3,4 just cut off**

Estimation: Round each number to one significant figure using the skills above. Once all numbers are rounded, then calculate using the rounded numbers.

Significant figures

If something is **significant**, it is big or important. The **most significant** thing is the biggest or most important thing.

3268

- 3 is worth the most in this number (3 thousand) It is the first significant figure.
- 2 is worth 2 hundred, and is the second significant figure.
- 6 is worth 6 tens, and is the third significant figure.
- 8 is worth 8 units, and is the fourth and least significant figure.

3268 rounded to 1 sig. fig.

3268 → 3000

1 sf 3000 | Look at the next digit. 2 is less than 5 - stay at 3000

3268 rounded to 2 sig. fig.

3268 → 3300

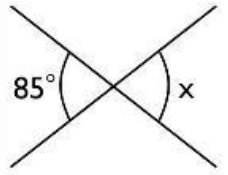
2 sf 3200 | Look at the next digit. 6 rounds up - go to 3300

MULTIPLICATION

5219 x 63 = 328797

5219	x	5000	200	10	9
x 63	60	300000	12000	600	540
15657	3	15000	600	30	27
313140					
328797					

Finally add all the numbers in red.



$x = 85°$

Vertically opposite angles are equal

Multiplying Decimal Numbers

Multiplying Decimal Numbers is very easy and simple. Just follow these three simple steps.....

Step 1: **Rewrite** decimal numbers **without decimal points.**
Step 2. **Multiply** normally as we multiply the regular whole numbers.
Step 3: **Count** the **number of decimal places** for both numbers.
In other words, count how many digits are after the decimal point in both the numbers you are multiplying. Then add those number of decimal points to the answer.

Now, lets **Multiply** **1.2 x 0.3= ?**

Step 1:
$$\begin{array}{r} 1\ 2 \\ \times\ 0\ 3 \\ \hline 3\ 6 \end{array}$$

Step 2:. 1 . 2 has **1 decimal places.**
and 0 . 3 has **1 decimal places.**

So, answer will have **2 decimal places**

1.2 x 0.3= 0.36

Now lets **Multiply** **0.25 x 0.3= ?**

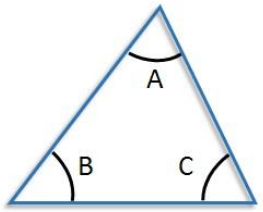
Step 1:
$$\begin{array}{r} 2\ 5 \\ \times\ \ 3 \\ \hline 7\ 5 \end{array}$$

Step 2: 0 . 25 has **2 decimal places.**
and 1 . 3 has **1 decimal places.**

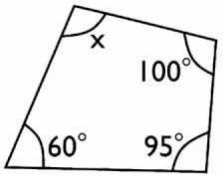
So, answer will have **3 decimal places.**

The product 75 has only 2 digits. There aren't enough digits in 75 to place decimal point. Hence, we add Zero to the left of the product to place decimal point.

0.25 x 0.3 = 0. 0 7 5



A + B + C = 180°



Angles in a quadrilateral add up to 360°

1 hour	60 minutes
100cm	1 metre
1000 metres	1 kilometre

Use these standard unit conversions to change between the different units.

E3 & E4 LEARN SHEET