

Starter

1) Find $\frac{3}{5}$ of 425.

$$\begin{array}{r} 85 \\ 5 \overline{)425} \\ \underline{40} \\ 25 \\ \underline{25} \\ 0 \end{array} \quad \begin{array}{r} 85 \\ 1 \times 3 \\ \underline{255} \end{array}$$

2) Solve for T: $3 + T = 2T - 5$

$$\begin{array}{r} 3 + T = 2T - 5 \\ -T \quad -T \\ \hline 3 = T - 5 \\ +5 \quad +5 \\ \hline 8 = T \end{array}$$

3) Calculate $\frac{2}{3}$ of $\frac{4}{5}$

$$\frac{2}{3} \times \frac{4}{5} = \frac{8}{15}$$

4) Factorise $18g + 36$

$$\begin{array}{l} 18(g+2) \quad 6(3g+6) \\ 9(2g+4) \end{array}$$

Today's Learning:
To round using decimal places and significant figures.

Rounding and Significant Figures 10/11/17

Round to a certain decimal place by looking at the **next** number. If it's 5 or above, "give it a shove" (round up).

e.g. 1) Round to 1 decimal place:

a) 2.357 b) 2.32 c) 2.993

$$\begin{array}{r} 2.4 \\ \hline 2.3 \\ \hline 3.0 \end{array}$$

2) Round to 2 decimal places:

a) 3.18463 b) 2.089

$$\begin{array}{r} 3.18 \\ \hline 2.09 \end{array}$$

In **3.25**, there are **3 significant figures**. 3 is the first one.

In **0.0042** there are **2 significant figures**. 4 is the first one.

In **3053** there are **4 significant figures**. 3 is the first one. The 0 counts as it is in the middle of other numbers.

3) Round to 3 significant figures:

a) 34.567

34.6

b) 20.156

20.2

c) 0.00214583

0.00215

Round the following numbers to **2 significant figures**:

1) 45.72

46

4) 2.999

3.0

2) 3.24

3.2

5) 2.121212

2.1

3) 1.01

1.0

6) 3267

3300

Round the following numbers to **3 significant figures**:

1) 34.512

34.5

4) 30.67

30.7

2) 3.055

3.06

5) 100.24

100

3) 2.1255

2.13

6) 13.04

13.0