

Starter1) Find $\frac{3}{5}$ of 425.

255

2) Solve for T: $3 + T = 2T - 5$ $T = 8$ 3) Calculate $\frac{2}{3}$ of $\frac{4}{5}$

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

4) Factorise $18g + 36$

$$18(g + 2)$$

Today's Learning:

To round using decimal places and significant figures.

Rounding and Significant Figures 4/12/17Round 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

2.4

b) 2.32

2.3

c) 2.993

3.0

2) Round to 2 decimal places:

a) 3.18463

3.18

b) 2.089

2.09

Round the following numbers to **2 decimal places**:

1) 2.368

2) 3.7099

3) 4.22222

4) 105.2780

5) 20.014

6) 9.99999

7) 23.49078

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.32000 3400
0.0003How many **significant figures** do these numbers have?

1) 456

5) 20.05

2) 0.003

6) 23.44

3) 52.06

7) 0.3245

4) 2.02187

8) 190.37036

3) Round to 3 significant figures:

a) 34.567

b) 20.156

c) 0.00214583

34.6

20.2

0.00215

3267

3270

Round the following numbers to 2 significant figures:

1) 45.72

4) 2.999

2) 3.24

5) 2.121212

3) 1.01

6) 3267

Round the following numbers to 3 significant figures:

1) 34.512

4) 30.67

2) 3.055

5) 100.24

3) 2.1255

6) 13.04

Using your calculator, evaluate the following to 3 sig. fig.

1) $\sqrt[5]{\frac{34}{7}}$

5) $(4 - 12)^{0.4} \times \sqrt{5}$

2) $2.4 \times 10^8 \div 7$

6) $\cos(3/4) \times (-2.4)$

3) $2.34^{-4.5}$

7) $(24\pi)^{-1.12}$

4) $\frac{-4 + 0.5^2}{-4}$

8) $3\frac{1}{3} \times 2.45 \times 10^{-3}$

Using your calculator, evaluate the following to 3 sig. fig.

1) 0.894

5) 5.14

2) 34 300 000

6) -2.40

3) 0.0218

7) 7.90×10^{-3}

4) 0.938

8) 0.00817