

Decimal Places (dp)

 When we round to decimals, we start counting as soon as we reach the decimal point.

Round 17.46789 to 2 decimal places

1 decimal place

2 decimal places, this will stay a 6 or go to a 7 depending on what the next number is

Significant Figures (sf)

 When we round to significant figures, we start counting as soon as we reach a <u>number that is</u> not zero

Round 17.46789 to 2 significant figures

Round to 1 sf

378537

Round to 3 sf

378437

Round to 2 sf

0.00289

Round to 3 sf

0.002087

Rounding to Significant Figures

- 1. What is the difference between rounding to significant figures and rounding to decimal places?
- 2. Round the following numbers to a) 1 sig fig b) 2 sig fig c) 3 sig fig
- i. 1463.8
- ii. 157.26
- iii. 37.096
- iv. 6.0936
- v. 0.006403
 - 3. Work out the following on a calculator and give the answer to 2 significant

figures;

a.
$$\sqrt{22}$$

b.
$$\frac{3.2 \times 0.2^2}{2.3}$$

c.
$$\sqrt{\frac{4.44 \times 0.3^2}{11}}$$

d.
$$\frac{\pi \times 17}{0.1} + \sqrt{14}$$