**Calculations with Approximations**

**Sometimes we are given a calculation to work out, but we only want to find an approximation to the answer – perhaps because we do not have a calculator to hand.**

**For example if we were asked to work out**

**2.03 × 62.15**

**we could approximate both numbers to 1 significant figure in the calculation as**

1. **× 60**

**and give the answer as approximately 120.**

**This can be done with any calculation. We must remember to approximate all the figures before we carry out the calculations**

**6.98 × 28.12**

**3.14 + 4.05**

**this calculation can be rewritten as**

**7 × 30**

**3 + 4**

**and the answer is then approximately 30.**

**Sometimes you round during the working too:**

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The squiggly equals means approximately equal to

**Sometimes you round differently for convenience**

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Round 250 to nearest multiple of 80 here