**Estimating and Rounding homework -** Answer these questions in your book (or on a sheet that you stick into your book).

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| **Literacy**  Estimate  “An accurate guess”  Approximate  Roughly  Rounding  Decimal places (d.p.)  Significant figures (s.f.) | **Research**  Find the following distances and write them to 2 significant figures.  - the circumference of earth (km)  - the maximum length of a blue whale (m)  - the tallest ever man (m)  Give an example of where you have (or could) used rounding in another subject at school. | **Memory**  “kilo” means x 1000  1 kilometre (km) = 1000 metres (m)  1 kilogramme (kg) = 1000 grams (g)  “milli” means ÷ 1000  1000 millimetres (mm) = 1 metre (m)  1000 milligrams (mg) = 1 gram (g) |
| **Skill Practice**  Estimating – (remember to lay your work out clearly – think about using a table.)  Find three things at home that are under 10cm long and three things that are above 1m long and estimate their exact length. Write your estimate of their length in your book.  Now measure them accurately and write down the measurements in your book. Were your estimates higher or lower than the measurements?  Rounding   1. Round the following numbers to 1 s.f. (significant figure) and then do the calculations in your head. 2. 13 x 28 b) 109 x 44 c) 46 ÷ 54 d) 12954 – 7866 e) 0.53 – 0.47 3. Round these numbers to 2 d.p. (2 decimal places) 4. 0.317 b) 0.455 c) 15.304 d) -0.116 e) -855.429 | | **Challenge** **and** **Stretch**   1. Use your calculator to work out the following and write your answer to 3 s.f. 2. 195 ÷ 382 3. 587 ÷ 99 4. 1 ÷ 12345 5. 22 ÷ 7 (Do you recognise this number? What is it used for?) 6. Use your calculator to work out the following and write your answer to 5 d.p. 7. 18 ÷ 19 8. 2 ÷ 9 9. 99 ÷ 70 10. 1 ÷ 100001 |