

Rounding to significant figures

- Round these numbers to one significant figure:
 - 543 **500**
 - 32 359 **30 000**
 - 12 638 **10 000**
 - 54 **50**
 - 21 987 **20 000**
 - 476 **500**
 - 2 541 209 **3 000 000**
 - 88 312 **90 000**
- Round these numbers to two significant figures:
 - 543 **540**
 - 32 359 **32 000**
 - 12 638 **13 000**
 - 54 **54**
 - 21 987 **22 000**
 - 476 **480**
 - 2 541 209 **2 500 000**
 - 88 312 **88 000**
- Round these numbers to one significant figure:
 - 0.3218 **0.3**
 - 1.583 **2**
 - 0.09184 **0.09**
 - 0.5248 **0.5**
 - 0.007081 2 **0.007**
 - 4.08215 **4**
 - 41.3287 **40**
 - 0.00072109 **0.0007**
- Round these numbers to three significant figures:
 - 0.3218 **0.322**
 - 1.583 **1.58**
 - 0.09184 **0.0918**
 - 0.5248 **0.525**
 - 0.007081 2 **0.00708**
 - 4.08215 **4.08**
 - 41.3287 **41.3**
 - 0.00072109 **0.000721**
- The diameter of Jupiter is 139 822 km. What is this to:
 - 1 s.f. **100 000 km**
 - 2 s.f. **140 000 km**
 - 3 s.f. **140 000 km**
- A flea weighs 0.000453298 g. What is its weight to:
 - 1 s.f. **0.0005 g**
 - 2 s.f. **0.00045 g**
 - 3 s.f. **0.000453 g**
- Estimate the answer to each of these questions by rounding to 1 s.f.
 - $5.6 \times 8.378 \approx 6 \times 8 = 48$
 - $589 \div 1.732 \approx 600 \div 2 = 300$