

**KEY - Chemistry Ch. 1 part 2 Test Overview practice (in class – not a grade)**

**How many sig. figs. are in the following numbers?**

- 1) 3060 = 3
- 2) -110.07 = 5
- 3) 0.00409 = 3
- 4) 0.0040 = 2
- 5) 5750. = 4

**Round the following numbers to two sig. figs.:**

- 6) 3060 → 3100
- 7) -110.07 → -110
- 8) 0.00409 → 0.0041
- 9) 0.0040 → same, 0.0040
- 10) 5750. → 5800

**Metric conversions:**

- 11) 123.4 g = 0.1234 kg
- 12) 0.488 damol = 4880 mmol
- 13) 56.0 cm = 0.560 m

**Density: (show all work and units; check sig. figs)**

- 14) How much space would an object take up if its mass is 350.00 g and its density is 7.66 g/cm<sup>3</sup>? 45.7 cm<sup>3</sup>

**D.A.: (show all work and units; check sig. figs)**

- 15) How many seconds old are you at the exact moment you turn 16?  
504,921,600 sec (used 365.25 days/yr; these time conversions are exact)
- 16) Convert  $8.20 \times 10^{24}$  atoms Na to mol Na. 13.6 mol Na
- 17) Convert 0.127 moles of C to grams of C. 1.53 g C
- 18) Convert 12 mol CO<sub>2</sub> to L CO<sub>2</sub> at STP. 270 L CO<sub>2</sub>