1. State the number of significant digits in each of the following:

2.50 cm	**3**	3.060 in	**4**
150 ft	**2**	101500 yd	**4**
83.120 g	**5**	0.707 s	**3**
558.101 kg	**6**	8540 cm	**3**

2. Round of each of the following numbers to **three** significant digits:

10.505 cm	**10.5 cm**	558.601 kg	**559 kg**
61.15 g	**61.2 g**	14.68 s	**14.7 s**
6547.25 g	**6550 g**	0.70549 mL	**0.705 mL**
0.005486 m	**0.00549 m**	149.02 lb	**149 lb**

3. Convert the following numbers into scientific notation with **three** significant digits:

0.00005248	**5.25×10^{-5}**	120301235	**1.20×10^{8}**
0.00124987	**1.25×10^{-3}**	0.000000125	**1.25×10^{-7}**
9854267000	**9.85×10^{9}**	4569830000	**4.57×10^{9}**

4. Add or subtract the following measurements, giving the correct number of significant digits in your answer:

31.15 cm + 41.000 cm =	**72.15 cm**	0.35 g + 0.01258 g =	**0.35 g**
242.167 s – 175 s =	**67 s**	10.0 mL – 0.247 mL =	**9.8 mL**
152.0 kg + 4589.11 kg =	**4741.1 kg**	52.69 cm – 0.5339 cm =	**52.16 cm**

5. Multiply or divide the following measurements, giving the correct number of significant digits in your answer:

5.1 cm x 3.65 cm x 9.40 cm =	**$170\ cm^3$**	66.3 g / 7.521 mL =	**8.82 g/mL**
21.1 cm x 20 cm =	**$400\ cm^2$**	131.78 m / 19.25 s =	**6.846 m/s**
$12.0\ cm^3$ / 0.1464 cm =	**$82.0\ cm^2$**	8.76 s x 9.6 s =	**$84\ s^2$**