ANSWERS

1. Express the following measurements in scientific notation rounding to **TWO** significant digits.

1.4×10^4 4.9×10^5 3.8×10^{-3}

a) 14 200 km __14 000__   c) 487 000 kg __490 000__   d) 0.00375 g __0.0038__

b) 0.00056 s __0.00056__   e) 0.0000945 g __0.000095__   f) 5 999 m __6.0×10^3__

        5.6×10^{-4} 9.5×10^{-5}

2. State the number of significant digits in each of the following quantities:

a) 809 g   __3__   g) 15 cycles   __INFINITE__ (*a count*)

b) 5.60 s   __3__   h) 0.0032050 m   __5__

c) 0.00060 cm   __2__   i) 136 000 m²   __3__

d) 5.795 km   __4__   j) 1000 mm/m   __INFINITE__ (*a conversion*

factor)

e) 120 m   __2__   k) 1.350 V   __4__

f) 0.000 003 25 kg   __3__   l) 14.50 m   __4__