## SIGNIFICANT FIGURES ANSWER KEY

Instructions: Identify the number of sig figs in numbers and practice using them in calculations.

**1.** *Estimate* the size of each of the following to two significant figures (do not use any measuring tool or a calculator!):

a.	The mass of a large orange	150	g
b.	Diameter of a basketball	23	cm
C.	Volume of one of the classroom sinks	0.25	m <sup>3</sup>

**2.** State the number of significant figures in each of the measurements in the table below, then express each of the values in scientific notation to two significant figures.

ø	Measurement	Number of significant figures	In scientific notation to 2 sig. figs.	
a.	0.0060 kg	2	$6.0 imes10^{-3}\mathrm{kg}$	
b.	1.0610 m	5	1.1×10° m OR 1.1 m	
C.	4086 km	4	$4.1 \times 10^3$ km	
d.	462.52 J	5	$4.6  imes 10^2  extrm{ J}$	

**3.** Complete each of the following calculations, giving your answers in the appropriate number of significant figures. Include appropriate units with your answers.

