

No.	Answer
1	B and D . Measured quantities have an inherent uncertainty.
2	a N b P c B
3	Averaging a set of results reduces the effects of random errors associated with taking measurements.
4	a 3 b 4 c 3 d 4
5	a 1.407×10^2 b 5.005×10^3 c 9.800×10^2 d 7.5×10^{-3}
6	a 7.80 b 6.00×10^2 c 9.83×10^1 d 6.00×10^{-4}
7	a 6×10^3 b 6.000×10^3
8	a 6.7×10^2 b 0.30, or 3.0×10^{-1} c 2.0 d 4.4×10^2
9	a 44.6 b 358.2
10	$\frac{722}{12} = 60.2 \text{ g}$ The answer should be given to 3 significant figures. The 12 is an exact number and is therefore not relevant to the significant figure count.