Keys for problem sets

❶ kg, m, and s.

❷
2.30 m
0.019 kg
48,000 m
22.907 kg
5906.3 m
23.77 m
9.28×10^{-5} kg
0.0884 m

❸
For example,

trial	Reading
1	0.0323 m
2	0.0325 m
3	0.0320 m
4	0.0322 m
5	0.0315 m

Average ⇨ 0.0321 m
Standard deviation ⇨ 0.0004 m
The significant figures ⇨ 3
Some random error of the measurement should be considered.

❹
Percent difference: 4.07%

❺
Percent error: 1.02%

❻
The slope must be around 2.23.