

Unit 1 • Observations, Models, & Experiments

METRIC SYSTEM & UNIT ANALYSIS

We often use three metric units: grams (mass), Liters (volume) and length (meters)

We also use three prefixes: kilo- (1000x), centi- (1/100th) and milli- (1/1000th)

metric fact	1 meter = 1000 mm	1 meter = 100 cm	1 km = 1000 m
conversion factors			

Make the following Metric System conversions using “unit analysis” (you may use scientific notation):

1. 100 mm x _____ = _____ m

2. 22 m x _____ = _____ cm

3. 2,350 km x _____ = _____ m

4. 6 m x _____ = _____ mm

5. 4,259 mm x _____ x _____ = _____ km

6. 20 cm x _____ = _____ m

7. 825 cm x _____ x _____ = _____ km

8. 5.2×10^4 km x _____ x _____ = _____ mm

9. 36 m x _____ = _____ cm

10. 18 cm x _____ x _____ = _____ mm

11. 5,270 mm = ? km