

Topic 2: Metric and Temperature Conversions

1. Use dimensional analysis (factor-label method) to make the following metric conversions:

a. 3.40 m to cm _____ × _____ = _____

b. 289 cm to nm _____ × _____ × _____ = _____

c. 125145 J to kJ _____ × _____ = _____

d. 164 mg to g _____ × _____ = _____

e. 46.5 mL to L _____ × _____ = _____

2. Make the following temperature conversions:

a. 162°F to °C _____

b. 0.0 °F to K _____

c. -18 °C to K _____

d. 212 K to °C _____

e. 98.6 °F to K _____