

## Conversion Practice

Name: \_\_\_\_\_

Period: \_\_\_\_\_

In physics, we will need to be able to convert between different units of measurement. Here are the most popular conversions you will encounter.

**For distance:**

10 millimeters = 1 centimeter    100 cm = 1 meter    1000 meters = 1 kilometer

**For mass:**

1000 grams = 1 kilogram

**For time:**

60 seconds = 1 minute

60 minutes = 1 hour

Using the conversions above as a guideline, determine how many:

1. Mm in 10 cm

4. Meters in 2.5 km

2. Cm in .5 meter

5. Meters in 35.7 km

3. Cm in 1.58 meters

6. Meters in 245 cm

7. Grams in 2 kg

12. Seconds in 1 hour

8. Grams in .5 kg

13. Grams in  $4 \times 10^{-3}$  kg

9. Grams in .032 kg

14. Grams in  $7 \times 10^{-1}$  kg

10. Grams in .002 kg

15. **Challenge:** Mm in 2.3 meters

11. Seconds in 30 minutes

16. **Challenge:** Meters in 306 mm

