

Units & Unit Conversion

1. Write the correct abbreviation for each metric unit.

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|--------------------|---------------------|---------------------|
| a. Kilometer _____ | d. Milliliter _____ | g. Kilometer _____ |
| b. Meter _____ | e. Millimeter _____ | h. Centimeter _____ |
| c. Gram _____ | f. Liter _____ | i. Decimeter _____ |

2. Write the base unit used for each measurement.

- a. Length _____ b. Time _____ c. Mass _____

3. Convert each of these measurements into their base units.

- a. 2000 mg = _____ c. 67 g = _____ e. 5.3 hm = _____ g. 12 minutes = _____
- b. 108 km = _____ d. 8240 dm = _____ f. 4 hours = _____ h. 0.2 minutes = _____

4. Convert your age in years to hours and then minutes.

5. Practice converting to the units given.

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|----------------------|-------------------------|-------------------------|
| a. 2000 mg = _____ g | f. 5 hours = _____ s | k. 16 cm = _____ mm |
| b. 1.48 km = _____ m | g. 198 g = _____ kg | l. 2956 s = _____ hours |
| c. 480 cm = _____ m | h. 75 g = _____ μ g | m. 65 g = _____ mg |
| d. 5.6 kg = _____ g | i. 50 cm = _____ m | n. 6.3 cm = _____ mm |
| e. 8 mm = _____ cm | j. 0.6 min = _____ s | o. 120 mg = _____ g |

6. Write the correct derived units for each measurement.

a. Speed _____ c. Area _____ d. Volume _____ e. Density _____

7. Convert the derived units given.

a. $5.04 \text{ km/hr} =$ _____ m/s f. $10 \text{ hm}^2 =$ _____ m^2

b. $8200 \text{ cm}^2 =$ _____ m^2 g. $2 \text{ km/s} =$ _____ m/s

c. $5.64 \text{ m/s} =$ _____ km/hr h. $10 \text{ m/s} =$ _____ km/hr

d. $3800 \text{ mm}^3 =$ _____ cm^3 i. $6 \text{ km}^3 =$ _____ m^3

e. $250 \text{ mm/s} =$ _____ km/hr j. $130 \text{ km/hr} =$ _____ m/s