

Intro to the Metric System

1 Answer these questions.

Which metric unit is 10 times bigger than a meter? a dekameter

Which metric unit is 100 times smaller than a meter? a centimeter

2 Answer these questions.

Which metric unit is 1,000 times bigger than a gram? a kilogram

Which metric unit is 1,000 times smaller than a gram? a milligram

3 List the abbreviations for each metric unit.

Unit	Abbreviation
kilogram	<u>kg</u>
meter	<u>m</u>
centimeter	<u>cm</u>
milligram	<u>mg</u>
millimeter	<u>mm</u>

4 How many meters are in each of the following units?

kilometer	<u>1,000 m</u>
hectometer	<u>100 m</u>
centimeter	<u>1/100 m</u>
millimeter	<u>1/1,000 m</u>

5 Convert this metric unit.

$$\begin{aligned}
 & 2,500 \text{ meters} \\
 = & \underline{250} \text{ dekameters} \\
 = & \underline{25} \text{ hectometers} \\
 = & \underline{2.5} \text{ kilometers}
 \end{aligned}$$

6 Convert this metric unit.

$$\begin{aligned}
 & 36.2 \text{ kilograms} \\
 = & \underline{362} \text{ hectograms} \\
 = & \underline{3,620} \text{ dekagrams} \\
 = & \underline{36,200} \text{ grams}
 \end{aligned}$$

7 Convert this metric unit.

$$\begin{aligned}
 & 0.71 \text{ meters} \\
 = & \underline{7.1} \text{ decimeters} \\
 = & \underline{71} \text{ centimeters} \\
 = & \underline{710} \text{ millimeters}
 \end{aligned}$$

8 Convert this metric unit.

$$\begin{aligned}
 & 128 \text{ milligrams} \\
 = & \underline{12.8} \text{ centigrams} \\
 = & \underline{1.28} \text{ decigrams} \\
 = & \underline{0.128} \text{ grams}
 \end{aligned}$$