















# Metric units and abbreviations

## Grade 4 Measurement Worksheet

Study the metric conversion chart, and then solve the word problems below.

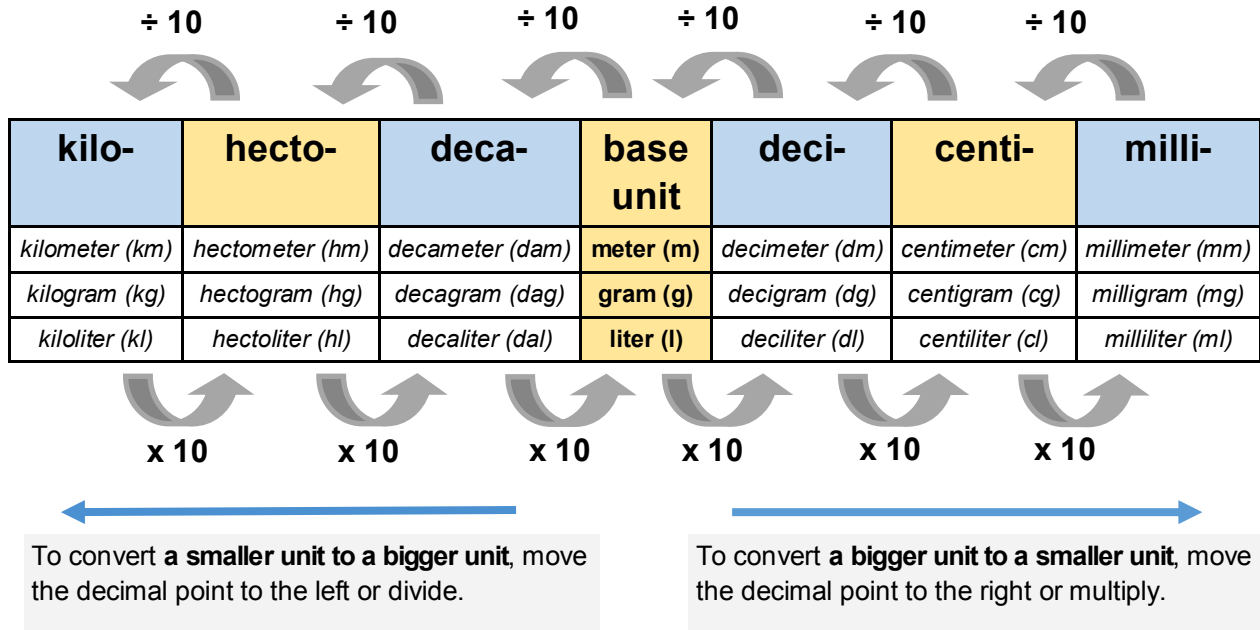
	$\div 10$	$\div 10$	$\div 10$	$\div 10$	$\div 10$	$\div 10$
						
<b>kilo-</b>	<b>hecto-</b>	<b>deca-</b>	<b>base unit</b>	<b>deci-</b>	<b>centi-</b>	<b>milli-</b>
<i>kilometer (km)</i>	<i>hectometer (hm)</i>	<i>decameter (dam)</i>	<b>meter (m)</b>	<i>decimeter (dm)</i>	<i>centimeter (cm)</i>	<i>millimeter (mm)</i>
<i>kilogram (kg)</i>	<i>hectogram (hg)</i>	<i>decagram (dag)</i>	<b>gram (g)</b>	<i>decigram (dg)</i>	<i>centigram (cg)</i>	<i>milligram (mg)</i>
<i>kiloliter (kl)</i>	<i>hectoliter (hl)</i>	<i>decaliter (dal)</i>	<b>liter (l)</b>	<i>deciliter (dl)</i>	<i>centiliter (cl)</i>	<i>milliliter (ml)</i>
	$\times 10$	$\times 10$	$\times 10$	$\times 10$	$\times 10$	$\times 10$
						

 To convert a **smaller unit to a bigger unit**, move the decimal point to the left or divide.

 To convert a **bigger unit to a smaller unit**, move the decimal point to the right or multiply.

1. David ran 4 km. How many meters did he run? \_\_\_\_\_
2. Mary bought 3,000 g of flour for her baking. How many kilograms of flour did she buy? \_\_\_\_\_
3. Francine used 38 cm of red ribbon for her project. How many millimeters of ribbon did she use? \_\_\_\_\_
4. Grace poured 2,000 ml of juice into a jar. How many liters of juice did she pour? \_\_\_\_\_
5. Kenny harvested 12 kg of potatoes in his farm. How many grams of potatoes did he harvest? \_\_\_\_\_

## Answers



- David ran 4 km. How many meters did he run? **4 000 m**
- Mary bought 3,000 g of flour for her baking. How many kilograms of flour did she buy? **3 kg**
- Francine used 38 cm of red ribbon for her project. How many millimeters of ribbon did she use? **380 mm**
- Grace poured 2,000 ml of juice into a jar. How many liters of juice did she pour? **2 l**
- Kenny harvested 12 kg of potatoes in his farm. How many grams of potatoes did he harvest? **12,000 g**