Physical Science
Name $\qquad$ Block: $\qquad$
Metric Conversions Worksheet \#1
What metric units would be used to represent each of the following?

1. 1000 grams kilogram 4. $41 / 1000$ meter
2. $1 / 10$ liter
3. $1 / 100 \mathrm{~m}$
4. $1 / 1000$ liter
5. 1000 s

Convert each of the following measurements to the units indicated. Show your work!
7. 5000 grams to kilograms

8. 100 liters to milliliters
9. 100 meters to centimeters
10. 2000 milliliters to liters
11. 30 centimeters to meters
16. 24.5 kilograms to grams

MORE PROBLEMS ON BACK $\rightarrow$

You can convert any values within the metric system, even if you only remember a few relationships. Sometimes, you'll need to use a two step process. For example, when converting 200 millimeters to centimeters:

You know that 1000 millimeters $=1$ meter
and 100 centimeters $=1$ meter

## Use a two-step process:

$200 \mathrm{~mm} \times \frac{1 \mathrm{~m}}{1000 \mathrm{~mm}} \times \frac{100 \mathrm{~cm}}{1 \mathrm{~m}}=20 \mathrm{~cm}$
Then ask yourself: Does it make sense?
Yes, a mm is smaller than a cm , so there should be more of them
Try These:
12. 50 millimeters to centimeters

cm
13. 5000 deciliters to kiloliters

14. 100 kilograms to centigrams

15. 100 centimeters to millimeters
16. 12 kiloseconds to milliseconds

