1. Complete the table.

Smaller Unit	Larger Unit	How Many Times as Large as?
ten	thousand	100

I ask myself, "One thousand is 100 times as large as what unit?" I know 1 thousand is 100 tens (1 × 100 tens). So, my smaller unit is ten.

2. Fill in the unknown unit in word form.

125 is 1 ***hundred*** 25 ones.

I ask myself, "125 ones is the same as 1 of what larger unit and 25 ones?"

125 cm is 1 ***meter*** 25 cm.

The units are centimeters. I can make a larger unit. 100 centimeters equals 1 meter. So, 1 meter 25 cm is the same as 125 cm.

3. Write the unknown number.

142,728 is 142 thousands 728 ones.

I can decompose 142 thousands 728 into smaller units. 142 thousands is the same as 142,000 ones. So, 142 thousands 728 ones is 142,728.

142,728 mL is 142 L 728 mL.

I know 1 liter equals 1,000 milliliters. So, 142 liters equals 142,000 milliliters, and 142 liters 728 milliliters equals 142,728 milliliters.

4. Fill in each with >, <, or =.

740,259 mL (>) 74 L 249 mL

74 L 249 mL is the same as 74,249 mL. 74 ten thousands is greater than 7 ten thousands.

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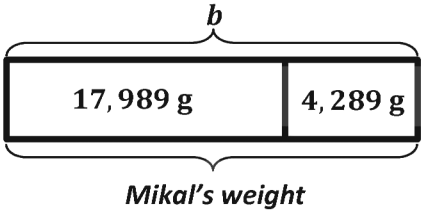
5. Mikal's backpack weighs $4,289$ grams. Mikal weighs 17 kilograms 989 grams more than his backpack. How much do Mikal and his backpack weigh in all?

$\mathbf{1\ kg = 1,000\ g}$

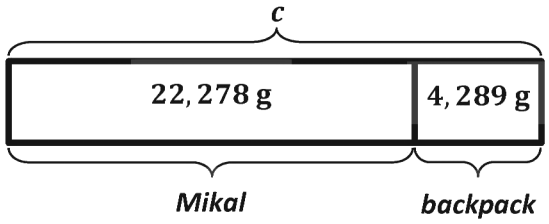
$$\begin{array}{rrrrrr} & 1 & 7, & 9 & 8 & 9\ \text{g} \\ + & & 4, & 2 & 8 & 9\ \text{g} \\ \hline & 2 & 2, & 2 & 7 & 8\ \text{g} \end{array}$$



$b = 22,278\ \text{g}$

To find Mikal's weight, I add. Mikal weighs $22,278$ g.

$$\begin{array}{rrrrrr} & 2 & 2, & 2 & 7 & 8\ \text{g} \\ + & & 4, & 2 & 8 & 9\ \text{g} \\ \hline & 2 & 6, & 5 & 6 & 7\ \text{g} \end{array}$$



$c = 26,567\ \text{g}$

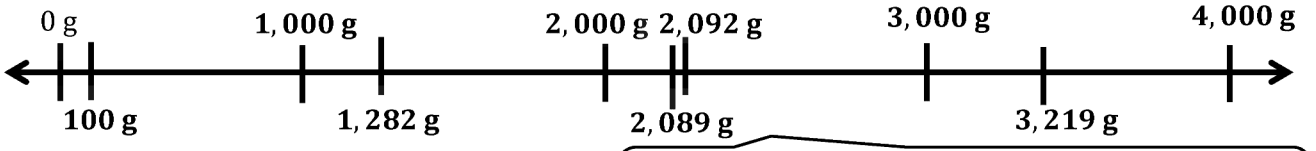
I add to find the total weight.

Altogether Mikal and his backpack weigh $\mathbf{26,567\ g}$ ***or*** $\mathbf{26\ kg\ 567\ g}$.

6. Place the following measurements on the number line:

1 kg 282 g $2,089$ g 2 kg 92 g $3,219$ g 100 g

Each unit on the number line is $1,000$ g. I label each tick mark.



I compare $2,092$ and $2,089$. 9 tens are more than 8 tens. So, $2,092$ is more than $2,089$.

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Name _____ Date _____

1. Complete the table.

Smaller Unit	Larger Unit	How Many Times as Large as?
centimeter	meter	100
	hundred	100
meter	kilometer	
gram		1,000
one		1,000
milliliter		1,000
one	hundred thousand	

2. Fill in the unknown unit in word form.

a. 135 is 1 _____35 ones.

b. 135 cm is 1 _____35 cm.

c. 1,215 is 1 _____ 215 ones.

d. 1,215 m is 1 _____215 m.

e. 12,350 is 12_____350 ones.

f. 12,350 g is 12 kg 350_____.

3. Write the unknown number.

a. _____is 125 thousands 312 ones.

b. _____mL is 125 L 312 mL.

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4. Fill in each with >, <, or =.

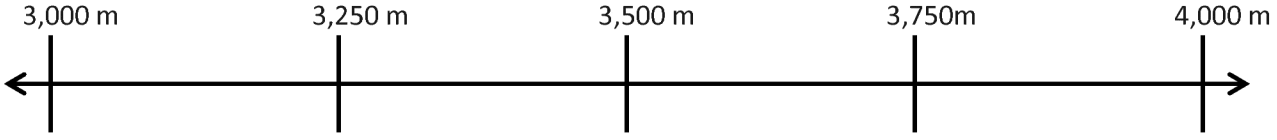
   a. 890,353 mL ◯ 89 L 353 mL

   b. 2 km 13 m ◯ 2,103 m

5. Brandon's backpack weighs 3,140 grams. Brandon weighs 22 kilograms 610 grams more than his backpack. If Brandon stands on a scale wearing his backpack, what will the weight read?

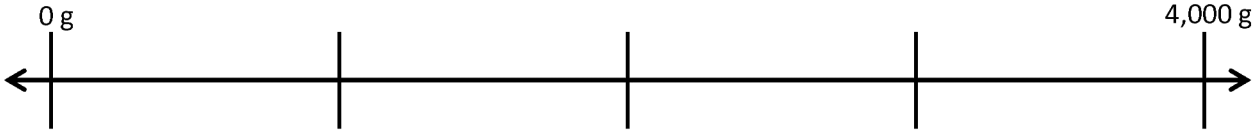
6. Place the following measurements on the number line:

3 km 275 m 3,500 m 3 km 5 m 394,000 cm



7. Place the following measurements on the number line:

1 kg 379 g 3,079 g 2 kg 79 g 3,579 g 579 g



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