

MSP

Grade 4 Module 2

Lesson Refreshers

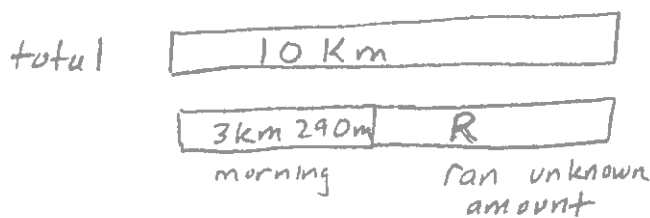
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Homework Starters

Use a tape diagram to model each problem. Solve using a simplifying strategy or an algorithm, and write your answer as a statement.

4. The length of Celia's garden is 15 m 24 cm. The length of her friend's garden is 2 m 98 cm more than Celia's. What is the length of her friend's garden?

5. Sylvia ran 3 km 290 m in the morning. Then, she ran some more in the evening. If she ran a total of 10 km, how far did Sylvia run in the evening?



Convert units to one unit, remember
 $1 \text{ km} = 1000 \text{ m}$ therefore $10 \text{ km} = 10,000 \text{ m}$
 $3 \text{ km } 290 \text{ m} = 3,290 \text{ m}$

$$\begin{array}{r} 99 \\ 10,000 \\ - 3,290 \\ \hline 6,710 \end{array}$$

Sylvia ran 6,710 m.
 or 6 km 710 m.

6. Jenny's sprinting distance was 356 meters shorter than Tyler's. Tyler sprinted a distance of 1 km 3 m. How many meters did Jenny sprint?

7. The electrician had 7 m 23 cm of electrical wire. He used 551 cm for one wiring project. How many centimeters of wire does he have left?

V.BARNES

Name _____

Date _____

1. Convert the measurements.

a. 21 kg 415 g = _____ g

b. 2 kg 91 g = _____ g

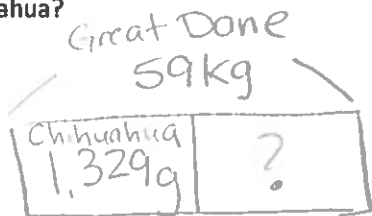
c. 87 kg 17 g = _____ g

d. ____ kg ____ g = 96,020 g

Use a tape diagram to model the following problem. Solve using a simplifying strategy or an algorithm, and write your answer as a statement.

2. The table to the right shows the weight of three dogs. How much more does the Great Dane weigh than the Chihuahua?

Dog	Weight
Great Dane	59 kg
Golden Retriever	32 kg 48 g
Chihuahua	1,329 g



$59 \text{ kg} = 59,000 \text{ g}$

$$\begin{array}{r} 9,000\text{g} \\ - 1,329\text{g} \\ \hline 57,671\text{g} \end{array}$$

*First I need to make sure I am working with the same units of measure so I have to convert 59kg to ? grams.

*Then I can solve the problem by subtracting the weight of the Chihuahua from the weight of the Great Dane to find out how much more the Great Dane weighs than the Chihuahua.

D. Calabres

Name _____

Date _____

1. Complete the conversion table.

Liquid Capacity	
L	mL
1	1,000
8	8,000
27	27,000
39	39,000
68	68,000
102	102,000

① every (L) is equal to 1,000 (mL)
 ② every 1,000 ml is equal to one (L)

2. Convert the measurements.

- a. 5 L 850 mL = 5,850 mL
- b. 29 L 303 mL = 29,303 mL
- c. 37 L 37 mL = 37,037 mL
- d. 17 L 2 mL = 17,002 mL
- e. 13,674 mL = 13 L 674 mL
- f. 275,005 mL = 275 L 005 mL

① To make a liter you need 1,000 ml so every (L) is that many thousands to the (mL)

3. Solve.

- a. 545 mL + 48 mL
- b. 8 L - 5,740 mL
- c. Express the answer in the smaller unit:
27 L 576 mL + 784 mL
- d. Express the answer in the smaller unit:
27 L + 3,100 mL
- e. Express the answer in mixed units:
9 L 213 mL - 638 mL
- f. Express the answer in mixed units:
41 L 724 mL - 28 L 945 mL

Name _____

Date _____

1. Fill in the unknown unit in word form.

a. 8,135 is 8 thousands 135 ones.

b. 8,135 kg is 8 thousands 135 g.

• use your conversion chart

2. 342,645 mL is equal to 342 L 645 mL.

3. Compare using >, <, or =. (> greater than < less than = equal)

a. 23 km 40 m > 2,340 m
 23,040 m

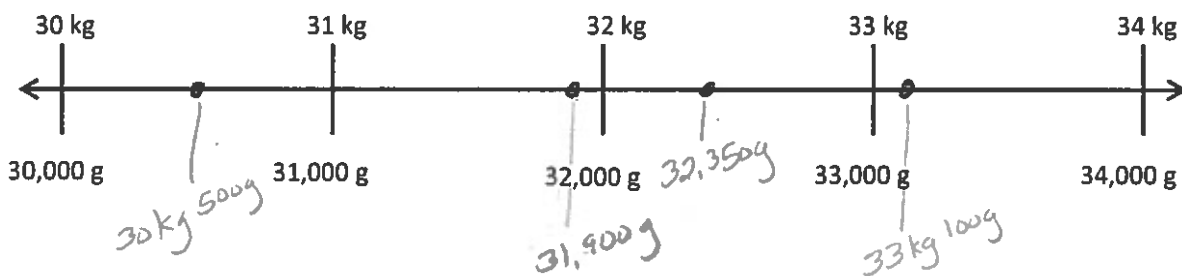
b. 13,798 mL < 137 L 980 mL
 137,980 mL

c. 5,607 m < 560,701 cm
 560,700 cm

• Again, use your conversion chart
 1,000 m = 1 km
 1,000 mL = 1 liter
 100 mm = 1 cm

4. Place the following measurements on the number line:

33 kg 100 g ✓ 31,900 g ✓ 32,350 g ✓ 30 kg 500 g ✓



• The number line has kg on the top, grams on the bottom. Use those labels to place each measurement on the line.

J. Benton

Name _____

Date _____

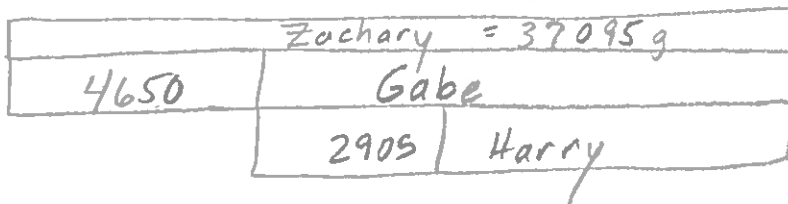
Model each problem with a tape diagram. Solve and answer with a statement.

1. The capacity of Jose’s vase is 2,419 milliliters of water. He poured 1 liter 299 milliliters of water into the empty vase. Then, he added 398 milliliters. How much more water will the vase hold?

2. Eric biked 1 kilometer 125 meters on Monday. On Tuesday, he biked 375 meters less than on Monday. How far did he bike both days?

3. Zachary weighs 37 kilograms 95 grams. Gabe weighs 4,650 grams less than Zachary. Harry weighs 2,905 grams less than Gabe. How much does Harry weigh?

Organize the questions being asked.



$$\Rightarrow \begin{array}{r} 37095 \\ - 4650 \\ \hline 32445 \end{array} \text{ gram} = \text{Gabe's weight}$$

$$\begin{array}{r} 32445 \\ - 2905 \\ \hline 29540 \end{array} \text{ gram} = \text{Harry's weight}$$