



Name _____

Date _____

1. Find the equivalent measures.

a. 1 kilometer = _____ meters. How does this answer help you find how many meters are in 7 kilometers?

b. _____

c. 13 kilometers = _____ meters

d. _____ kilometers = 17,000 meters

2. Find the equivalent measures.

a. 7 km 123 m = _____ meters

(7 km = _____ m) + 123 m = _____ meters

b. 22 km 22 m = _____ meters

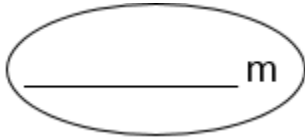
(22 km = _____ m) + 22 m = _____ meters

c. 875 km 4 m = _____ meters

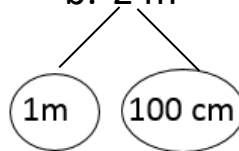
(875 km = _____ meters) + 4 m = _____ meters

3. Solve.

a. $2 \text{ km } 303 \text{ m} - 556 \text{ m} =$



b. $2 \text{ m} - 54 \text{ cm} =$



4. Write vertically and solve.

a. $38 \text{ km } 53 \text{ m} + 62 \text{ km } 71 \text{ m} =$

b. $800 \text{ m } 65 \text{ cm} - 154 \text{ m } 49 \text{ cm} =$

c. $701 \text{ km} - 523 \text{ km } 445 \text{ m} =$

d. $31 \text{ km } 811 \text{ m} + 45 \text{ km } 829 \text{ m} =$

Use a tape diagram to model each problem.

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. 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?



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1. Complete the table.

Mass	
kg	g
1	1,000
6	
	8,000
15	
	24,000
550	

2. Find the equivalent measures.

a. $2 \text{ kg } 700 \text{ g} = \underline{\hspace{2cm}} \text{ g}$

b. $5 \text{ kg } 945 \text{ g} = \underline{\hspace{2cm}} \text{ g}$

c. $9 \text{ kg } 58 \text{ g} = \underline{\hspace{2cm}} \text{ g}$

d. $1 \text{ kg } 3 \text{ g} = \underline{\hspace{2cm}} \text{ g}$

Solve.

Rename units if possible.

a. $370 \text{ g} + 80 \text{ g} =$

b. $5 \text{ kg} - 730 \text{ g} =$

c. $27 \text{ kg } 547\text{g} + 694 \text{ g} =$

d. $16 \text{ kg} + 2,800 \text{ g} =$

Directions: Use a tape diagram to model each problem.

4. One suitcase weighs 23 kg 696 g. Another suitcase weighs 25 kg 528 g. What is the total weight of the two suitcases?

5. A bag of potatoes and a bag of onions together weigh 11 kg 15 g. If the bag of potatoes weighs 7 kg 300 g, how much does the bag of onions weigh?



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1. Find the missing numbers.

a. 5 L 850 mL = _____ mL

b. 9 L 303 mL = _____ mL

c. 7 L 37 mL = _____ mL

d. 17 L 2 mL = _____ mL

e. 13,674 mL = _____ L _____ mL

f. 5,505 mL = _____ L _____ mL

2. Solve.

a. 545 mL + 48 mL =

b. 8 L – 5,740 mL =

c. 27 L 576 mL + 784 mL =

d. 27 L + 3,100 mL =

3. Sammy's bucket was filled with 2,530 milliliters of water, Marie's bucket was filled with 2 liters 30 milliliters of water, and Katie's bucket was filled with 2 liters 350 milliliters of water. Whose bucket had the least amount of water? Use a tape diagram to compare the three amounts.

3. At football practice, the water jug was filled with 18 liters 530 milliliters of water. At the end of practice, there were 795 milliliters left. How much water did the team drink? Solve any way.



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1. Complete the following table.

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

2. Fill in the missing unit in word form.

- a. 135 is 1 _____ and 35 ones
- b. 135 centimeters is 1 _____ and 35 centimeters
- c. 1,215 is 1 _____ and 215 ones
- d. 1,215 meters is 1 _____ and 215 meters
- e. 12,350 is _____ thousands and 350 ones
- f. 12,350 grams is 12 kilograms and _____ grams

3. Brandon's backpack weighs 3,140 grams. Brandon weighs 22 kilograms 610 grams **more than** his backpack. If Brandon were to stand on a scale wearing his backpack, what would the weight read?

4. Place the following measurements on the number line:

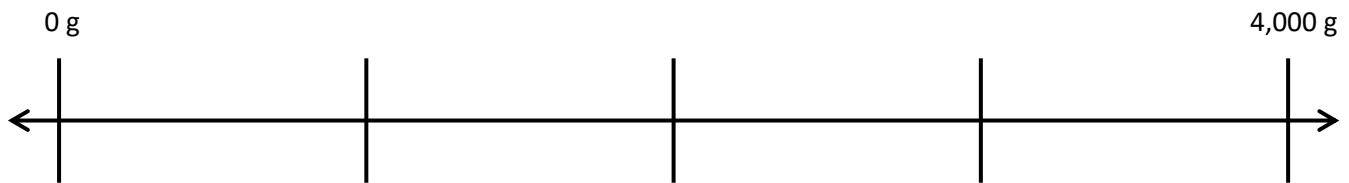
1 kg 379 g

3,079 g

2 kg 79 g

3,579 g

579 g





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Directions: Solve. Model the problems using a tape diagram

1. Jose's vase can hold up to 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 km 125 m on Monday. On Tuesday, he biked 375 m less than on Monday. How far did he bike both days?

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

4. Marsha has three rugs. The first rug is 2 m 87 cm long. The second rug has a length 98 cm less than the first. The third rug is 111 cm longer than the second rug. How long is the third rug?