A Story of Units®

Eureka Math[™] Grade 4, Module 2

Student File_A

Contains copy-ready classwork and homework as well as templates (including cut outs)

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This book may be purchased from the publisher at eureka-math.org
10 9 8 7 6 5 4 3 2 1

1. Convert the measurements.

2. Convert the measurements.

d. 3 m 56 cm = ____ cm

f. 120 m 46 cm = ____ cm

3. Solve.

b. 1 m 15 cm - 34 cm

- c. Express your answer in the smaller unit: 1 km 431 m + 13 km 169 m
- d. Express your answer in the smaller unit: 231 m 31 cm - 14 m 48 cm

e. 67 km 230 m + 11 km 879 m

f. 67 km 230 m - 11 km 879 m

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 Carter's driveway is 12 m 38 cm. His neighbor's driveway is 4 m 99 cm longer. How long is his neighbor's driveway?

5. Enya walked 2 km 309 m from school to the store. Then, she walked from the store to her home. If she walked a total of 5 km, how far was it from the store to her home?

6. Rachael has a rope 5 m 32 cm long that she cut into two pieces. One piece is 249 cm long. How many centimeters long is the other piece of rope?

7. Jason rode his bike 529 fewer meters than Allison. Jason rode 1 km 850 m. How many meters did Allison ride?



1. Find the equivalent measures.

2. Find the equivalent measures.

3. Solve.

- c. Express your answer in the smaller unit: 338 km 853 m + 62 km 71 m
- d. Express your answer in the smaller unit: 800 m 35 cm - 154 m 49 cm

e. 701 km - 523 km 445 m

f. 231 km 811 m + 485 km 829 m

Name _____

Date _____

1. Complete the conversion table.

Mass	
kg	g
1	1,000
3	
	4,000
17	
	20,000
300	

2. Convert the measurements.

a.
$$1 \text{ kg } 500 \text{ g} = \underline{\qquad} \text{g}$$

3. Solve.

b.
$$1 \text{ kg} - 237 \text{ g}$$

- c. Express the answer in the smaller unit: 25 kg 9 g + 24 kg 991 g
- d. Express the answer in the smaller unit: 27 kg 650 g - 20 kg 990 g

e. Express the answer in mixed units: 14 kg 505 g - 4,288 g

f. Express the answer in mixed units: 5 kg 658 g + 57,481 g

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

4. One package weighs 2 kilograms 485 grams. Another package weighs 5 kilograms 959 grams. What is the total weight of the two packages?



5. Together, a pineapple and a watermelon weigh 6 kilograms 230 grams. If the pineapple weighs 1 kilogram 255 grams, how much does the watermelon weigh?

6. Javier's dog weighs 3,902 grams more than Bradley's dog. Bradley's dog weighs 24 kilograms 175 grams. How much does Javier's dog weigh?

7. The table to the right shows the weight of three Grade 4 students. How much heavier is Isabel than the lightest student?

Student	Weight
Isabel	35 kg
Irene	29 kg 38 g
Sue	29,238 g



Name

Date

1. Complete the conversion table.

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

2. Convert the measurements.

d.
$$31 \text{ kg } 3 \text{ g} = ____g$$

3. Solve.

a.
$$370 g + 80 g$$

- c. Express the answer in the smaller unit: 27 kg 547 g + 694 g
- d. Express the answer in the smaller unit: 16 kg + 2,800 g

- e. Express the answer in mixed units: 4 kg 229 g - 355 g
- f. Express the answer in mixed units: 70 kg 101 g - 17 kg 862 g

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

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

5. A bag of potatoes and a bag of onions combined weigh 11 kilograms 15 grams. If the bag of potatoes weighs 7 kilograms 300 grams, how much does the bag of onions weigh?

6. The table to the right shows the weight of three dogs. What is the difference in weight between the heaviest and lightest dog?

Dog	Weight
Lassie	21 kg 249 g
Riley	23 kg 128 g
Fido	21,268 g



Name _____

Date _____

1. Complete the conversion table.

Liquid Capacity		
L	mL	
1	1,000	
5		
38		
	49,000	
54		
	92,000	

2. Convert the measurements.

a.
$$2 L 500 mL = ____ mL$$

3. Solve.

b.
$$7 L - 3,400 mL$$

- c. Express the answer in the smaller unit: 25 L 478 mL + 3 L 812 mL
- d. Express the answer in the smaller unit: 21 L - 2 L 8 mL

e. Express the answer in mixed units: 7 L 425 mL - 547 mL

f. Express the answer in mixed units: 31 L 433 mL - 12 L 876 mL



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

- 4. To make fruit punch, John's mother combined 3,500 milliliters of tropical drink, 3 liters 95 milliliters of ginger ale, and 1 liter 600 milliliters of pineapple juice.
 - a. Order the quantity of each drink from least to greatest.

b. How much punch did John's mother make?

5. A family drank 1 liter 210 milliliters of milk at breakfast. If there were 3 liters of milk before breakfast, how much milk is left?

6. Petra's fish tank contains 9 liters 578 milliliters of water. If the capacity of the tank is 12 liters 455 milliliters of water, how many more milliliters of water does she need to fill the tank?





Name _____

Date _____

1. Complete the conversion table.

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

2. Convert the measurements.

- 3. Solve.
 - a. 545 mL + 48 mL

b. 8L - 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

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

4. Sammy's bucket holds 2,530 milliliters of water. Marie's bucket holds 2 liters 30 milliliters of water. Katie's bucket holds 2 liters 350 milliliters of water. Whose bucket holds the least amount of water?

5. 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?

6. 27,545 milliliters of gas were added to a car's empty gas tank. If the gas tank's capacity is 56 liters 202 milliliters, how much gas is needed to fill the tank?



|--|

1. Complete the table.

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

_				• • •			•
,	HIII	ın 1	the	linits	ın	word	form.

a.	429 is 4	hundreds 29	
a.	442134	Hulluleus 23	

h.	429 cm is 4	29 cm
D.	427 LIII IS 4	27 LIII.

c.	2.456 is 2	456 ones.
u .	4. 4 JU I3 4	430 01163.

e.	13.709 is 13	709 ones.

3. Fill in the unknown number.

a.	IS	4	56	tl	ho	us	sar	ıds	82	29	or	ıes





4. Use words, equations, or pictures to show and explain how metric units are like and unlike place value

5. Compare using >, <, or =.

a. 893,503 mL

89 L 353 mL

b. 410 km 3 m

4,103 m

c. 5,339 m

533,900 cm

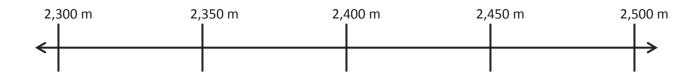
6. Place the following measurements on the number line:

2 km 415 m

2,379 m

2 km 305 m

245,500 cm



7. Place the following measurements on the number line:

2 kg 900 g

3,500 g

1 kg 500 g

2,900 g

750 g



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.
۷.	1 111 111 1110	alliki i O VV I I	arnt m	WOIG	101111.

a.	135 is	1	35	one
a.	TOO 13	_	33	OHIC

- 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.



- 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?

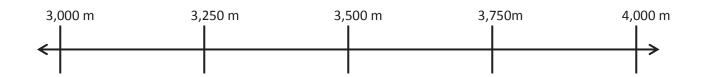
6. Place the following measurements on the number line:

3 km 275 m

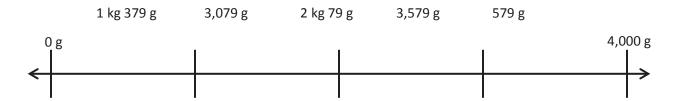
3,500 m

3 km 5 m

394,000 cm



7. Place the following measurements on the number line:



Name	Date	
INGILIC	Date	

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

1. The potatoes Beth bought weighed 3 kilograms 420 grams. Her onions weighed 1,050 grams less than the potatoes. How much did the potatoes and onions weigh together?



2. Adele let out 18 meters 46 centimeters of string to fly her kite. She then let out 13 meters 78 centimeters more before reeling back in 590 centimeters. How long was her string after reeling it in?



3. Shyan's barrel contained 6 liters 775 milliliters of paint. She poured in 1 liter 118 milliliters more. The first day, Shyan used 2 liters 125 milliliters of the paint. At the end of the second day, there were 1,769 milliliters of paint remaining in the barrel. How much paint did Shyan use on the second day?



Lesson 5:

4. On Thursday, the pizzeria used 2 kilograms 180 grams less flour than they used on Friday. On Friday, they used 12 kilograms 240 grams. On Saturday, they used 1,888 grams more than on Friday. What was the total amount of flour used over the three days?



5. The gas tank in Zachary's car has a capacity of 60 liters. He adds 23 liters 825 milliliters of gas to the tank, which already has 2,050 milliliters of gas. How much more gas can Zachary add to the gas tank?

6. A giraffe is 5 meters 20 centimeters tall. An elephant is 1 meter 77 centimeters shorter than the giraffe. A rhinoceros is 1 meter 58 centimeters shorter than the elephant. How tall is the rhinoceros?



Na	me	Date
Mo	odel each problem with a tape diagram. Solve and answer with a sta	itement.
1.	The capacity of Jose's vase is 2,419 milliliters of water. He poured empty vase. Then, he added 398 milliliters. How much more water	
2.	Eric biked 1 kilometer 125 meters on Monday. On Tuesday, he bike How far did he bike both days?	ed 375 meters less than on Monday.
3.	Zachary weighs 37 kilograms 95 grams. Gabe weighs 4,650 grams I 2,905 grams less than Gabe. How much does Harry weigh?	less than Zachary. Harry weighs



4.	A Springer Spaniel weighs 20 kilograms 490 grams. A Cocker Spaniel weighs 7,590 grams less than a
	Springer Spaniel. A Newfoundland weighs 52 kilograms 656 grams more than a Cocker Spaniel. What is
	the difference, in grams, between the weights of the Newfoundland and the Springer Spaniel?

5. Marsha has three rugs. The first rug is 2 meters 87 centimeters long. The second rug has a length 98 centimeters less than the first. The third rug is 111 centimeters longer than the second rug. What is the difference in centimeters between the length of the first rug and the third rug?

6. One barrel held 60 liters 868 milliliters of sap. A second barrel held 20,089 milliliters more sap than the first. A third barrel held 40 liters 82 milliliters less sap than the second. If the sap from the three barrels was poured into a larger container, how much sap would there be in all?

