Eureka Math

4th Grade
Module 7
Lesson 14

At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this project!

Directions for customizing presentations are available on the next slide.

Icons

Read, Draw, Write

Learning Target

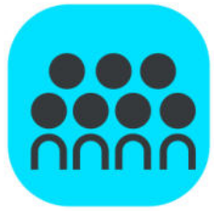
Personal White Board

Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

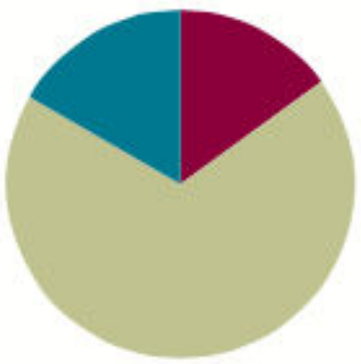
Small Group Time

Lesson 14

Objective: Solve multi-step word problems involving converting mixed number measurements to a single unit.

Suggested Lesson Structure

Fluency Practice	(9 minutes)
Concept Development	(41 minutes)
Student Debrief	(10 minutes)
Total Time	**(60 minutes)**



Solve multi-step word problems involving converting mixed number measurements to a single unit.

Complete Length Units

90 cm How many more centimeters complete 1 meter?

10 centimeters

50 cm How many more centimeters complete 1 meter?

50 centimeters

25 cm How many more centimeters complete 1 meter?

75 centimeters

36 cm How many more centimeters complete 1 meter?

64 centimeters

1 foot How many feet to complete 1 yard?

2 feet

Complete Length Units

500 meters How many more meters complete 1 kilometer?

500 meters

650 meters How many more meters complete 1 kilometer?

350 meters

350 meters How many more meters complete 1 kilometer?

650 meters

479 meters How many more meters complete 1 kilometer?

521 meters

Complete Length Units

10 inches How many more inches complete 1 foot?

2 inches

6 inches How many more inches complete 1 foot?

6 inches

7 inches How many more inches complete 1 foot?

5 inches

Complete Weight Units

10 ounces How many more ounces complete 1 pound?

6 ounces

8 ounces How many more ounces complete 1 pound?

8 ounces

900 grams How many more grams complete 1 kilogram?

100 grams

750 grams How many more grams complete 1 kilogram?

250 grams

378 grams How many more grams complete 1 kilogram?

622 grams

Complete Capacity Units

3 quarts How many more quarts complete 1 gallon?

1 quart

2 quarts How many more quarts complete 1 gallon?

2 quarts

500 milliliters How many more milliliters complete 1 liter?

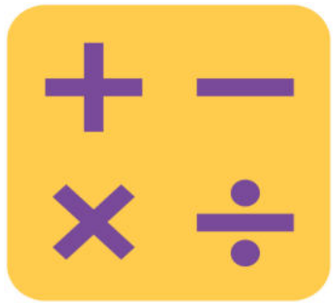
500 milliliters

650 milliliters How many more milliliters complete 1 liter?

350 milliliters

647 milliliters How many more milliliters complete 1 liter?

353 milliliters



Complete Capacity Units

2 cups How many more cups complete 1 quart?

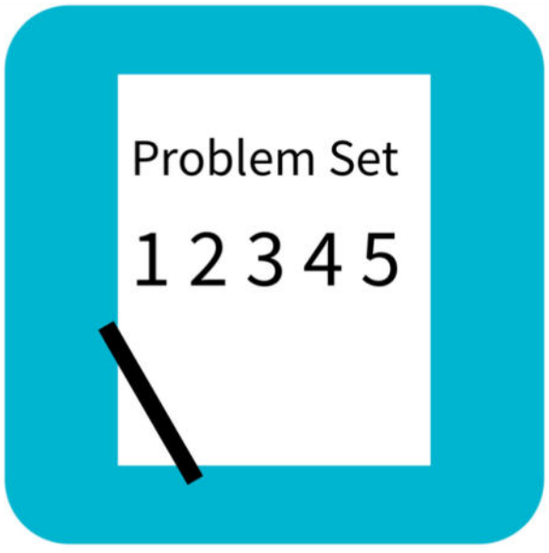
2 cups

3 cups How many more cups complete 1 quart?

1 cup

4 cups How many more cups complete 1 quart?

0 cups



Problem Set

Name _____ Date _____

Use RDW to solve the following problems.

1. A cartoon lasts $\frac{1}{2}$ hour. A movie is 6 times as long as the cartoon. How many minutes does it take to watch both the cartoon and the movie?

Debrief

- In Problem 1, how many different ways were 7 halves represented? (30 min × 7, as $\frac{7}{2}$ and as $\frac{6}{2}+\frac{1}{2}$.) What advantage is there to knowing all of these representations when it comes to solving a problem like this one?
- Explain to your partner how you solved Problem 2. If you used different strategies, discuss how you arrived at the same answer.
- What shortcuts or efficiencies did you use today when solving your problems? How do you decide whether to start by converting to a smaller unit or to work with the mixed number measurements?
- How is the remainder in Problem 5 interpreted?
- Did you have trouble persevering at times? When? What can you do to stay focused?

Exit Ticket

Name _____ Date _____

Use RDW to solve the following problem.

It took Gigi 1 hour and 20 minutes to complete a bicycle race. It took Johnny twice as long because he got a flat tire. How many minutes did it take Johnny to finish the race?