Eureka Math

4th Grade
Module 7
Lesson 8

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

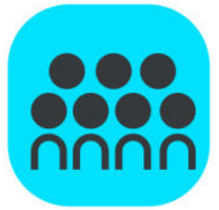
Personal White Board

Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

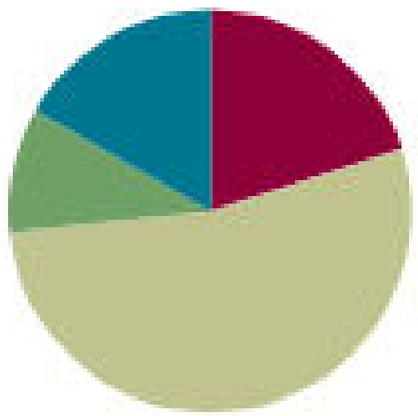
Small Group Time

Lesson 8

Objective: Solve problems involving mixed units of weight.

Suggested Lesson Structure

Application Problem	(6 minutes)
Fluency Practice	(12 minutes)
Concept Development	(32 minutes)
Student Debrief	(10 minutes)
Total Time	**(60 minutes)**



I can solve problems involving mixed units of weight.

Core Fluency Page

Add mixed numbers

3 fifths + 6 fifths=

Express 9 fifths as mixed units

4 thirds + 9 thirds =

Express 13 thirds as mixed units

Convert length units

1 yd=_____ft

1 yd 2 ft=_____ft

4 yd 1 ft=_____f

1 ft=_____in

4 ft 7 in=_____in

Application Problem

A sign next to the roller coaster says a person must be 54 inches tall to ride. At his last doctor's appointment, Hever was 4 feet 4 inches tall. He has grown 3 inches since then.

a. Is Hever tall enough to ride the roller coaster? By how many inches does he make or miss the minimum height?

b. Hever's father is 6 feet 3 inches tall. How much taller than the minimum height is his father?

Add mixed units of weight

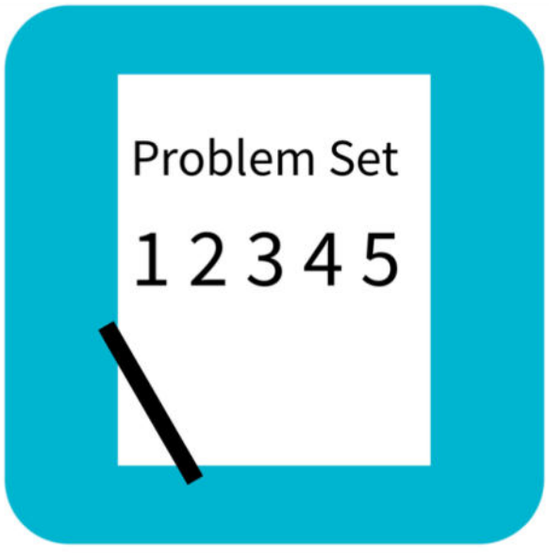
Solve: 4 lbs 11 oz + 15 oz.

Be prepared to share your process.

Subtract mixed units of length

Solve: 6 lbs 7 oz- 12 oz

Be prepared to share your process.



Problem Set

Name _____ Date _____

1. Determine the following sums and differences. Show your work.

   a. 7 oz + 9 oz = _____ lb

   b. 1 lb 5 oz + 11 oz = _____ lb

Debrief

- Explain how the work from Lessons 6, 7, and 8 are related.
- What makes one strategy for adding or subtracting mixed units more efficient than another?
- How is adding and subtracting weight measurement units like adding and subtracting mixed numbers? Length units? Capacity units?
- Notice that in the fluency activities we added sixteenths. Why do you think sixteenths were chosen as the unit in the fluency activities for this lesson?
- What pattern did you notice between Problem 1(e) and Problem 1(f)?
- Explain to your partner how to solve Problem 1(g).
- For Problem 4(b), did you include the weight of the backpack as you calculated the answer? Does the weight of the backpack change the answer? Explain.

Exit Ticket

Name _____ Date _____

Determine the following sums and differences. Show your work.

1. 4 lb 6 oz + 10 oz = _____ lb _____ oz