Eureka Math

4th Grade
Module 5
Lesson 1

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

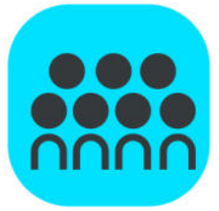
Personal White Board

Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

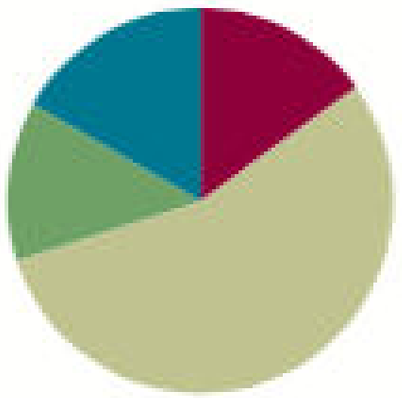
Small Group Time

Lesson 1

Objective: Decompose fractions as a sum of unit fractions using tape diagrams.

Suggested Lesson Structure

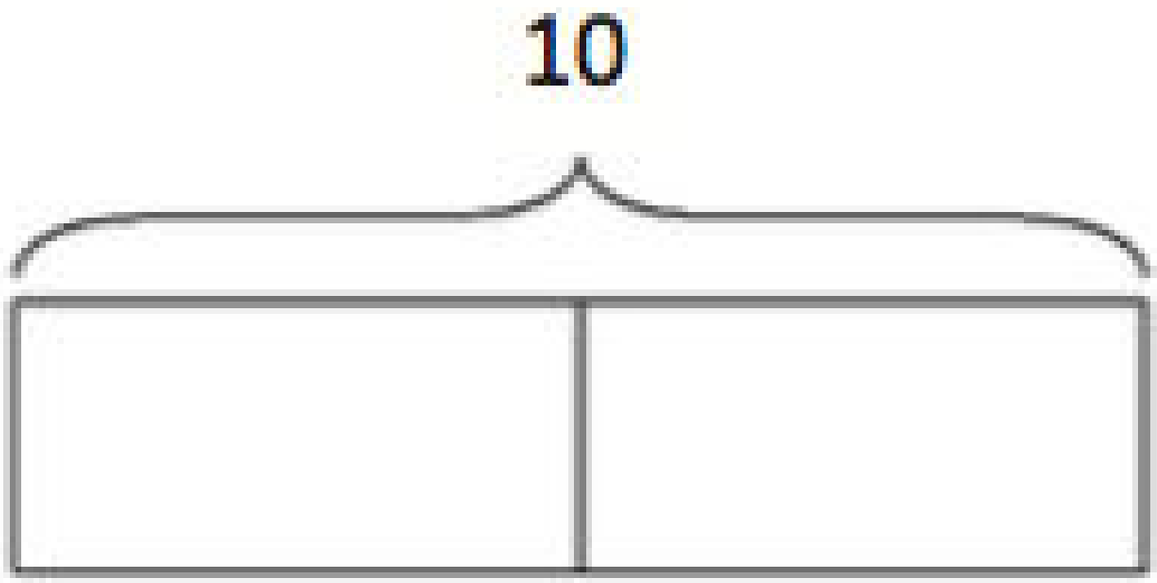
Fluency Practice	(9 minutes)
Application Problem	(8 minutes)
Concept Development	(33 minutes)
Student Debrief	(10 minutes)
Total Time	**(60 minutes)**



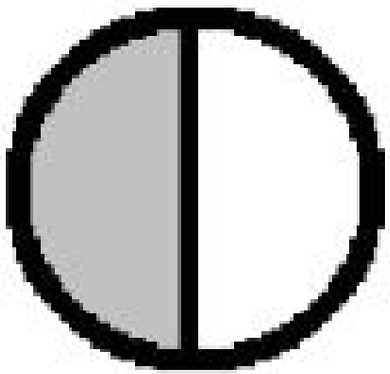
Decompose fractions as a SUM of unit fractions using tape diagrams.

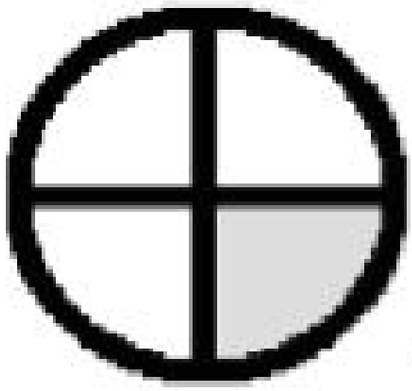
Read tape diagrams

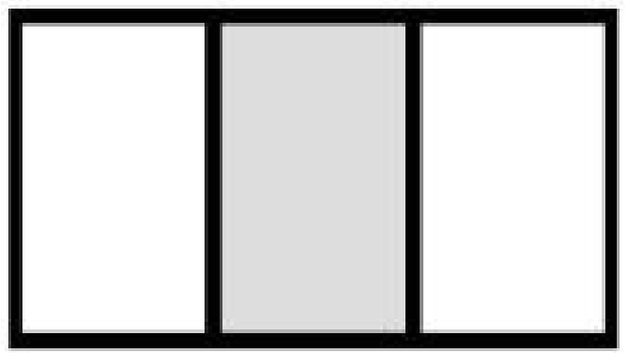
What could this tape diagram mean. Talk with your group members.



Add fractions







- What part of the first circle is shaded?
- Write the fraction down.
- What part is not shaded?
- Write that fraction down.
- When we add those two fractions together, what do we get?

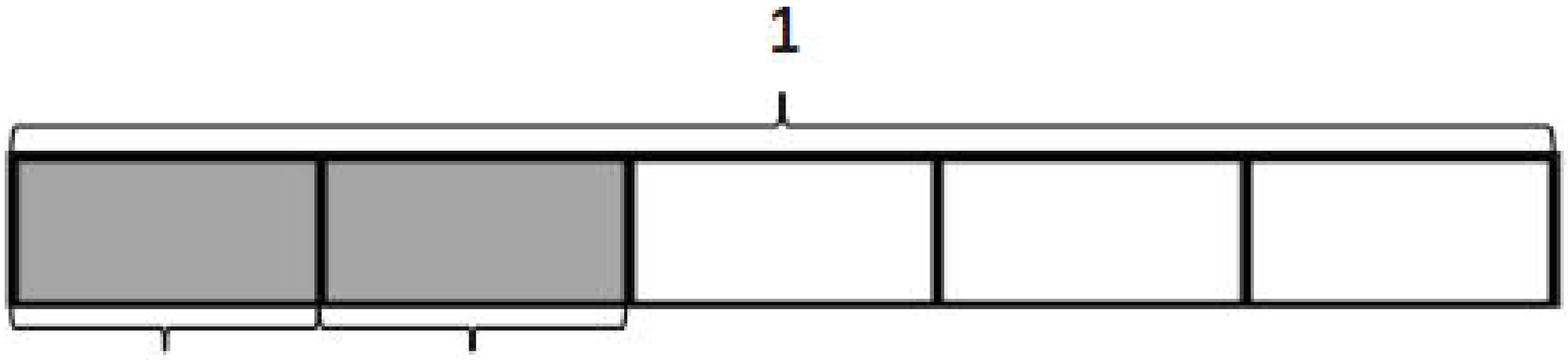
Application Problem

See page 5.A.5 for direction on how to complete the application problem.

Paper activity

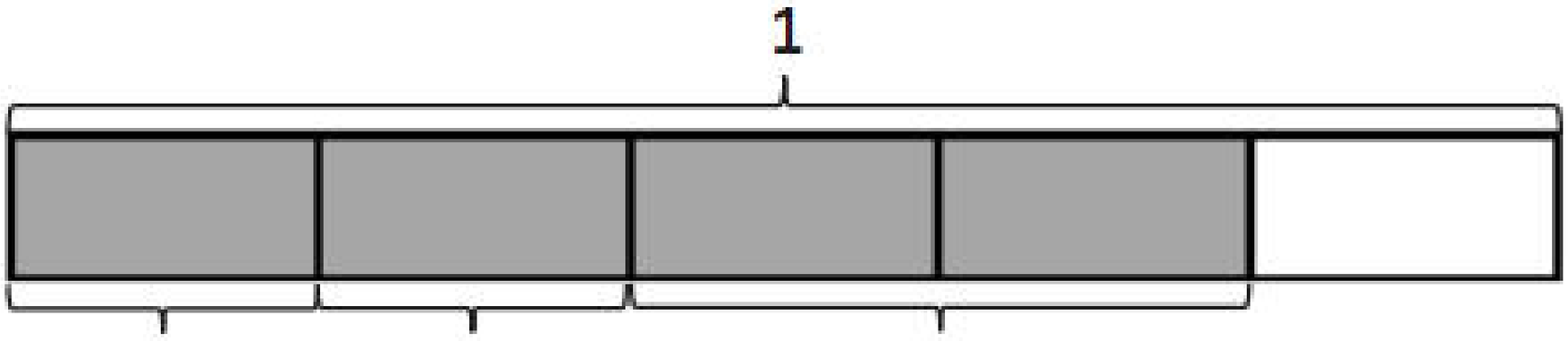
- Look at page 5.A.6 for activity.

Decompose using a tape diagram



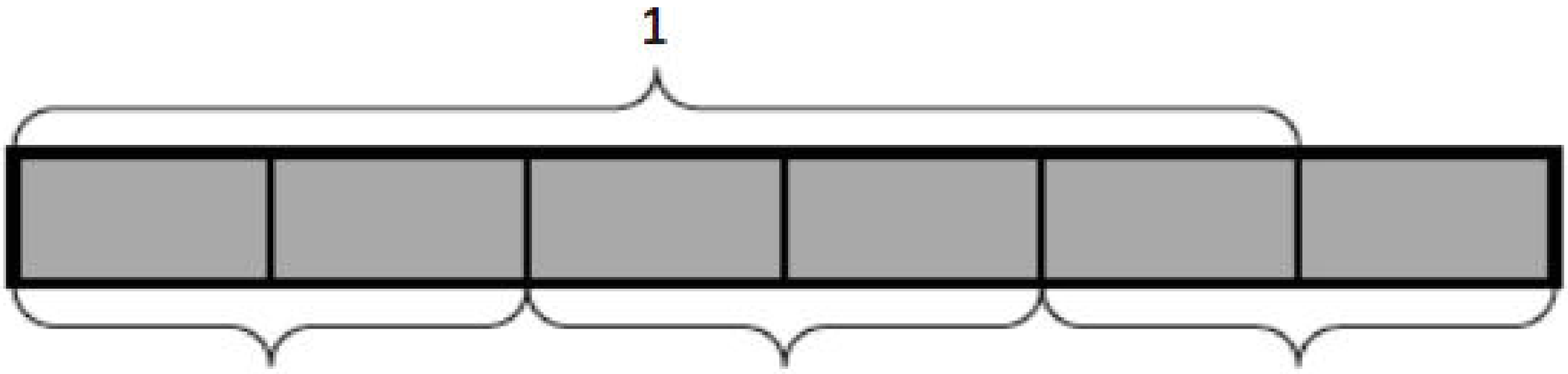
- Let’s look at this tape diagram.
- What is the whole?
- How many parts is it split into?
- What does the shaded part represent?
- What is the UNIT fraction?
- Decompose 2 fifths into a sum of unit fractions.

Decompose using a tape diagram



- Let’s look at this tape diagram.
- What is the whole?
- How many parts is it split into?
- What does the shaded part represent?
- What is the UNIT fraction?
- Decompose 4 fifths into a sum of unit fractions.

Decompose using a tape diagram



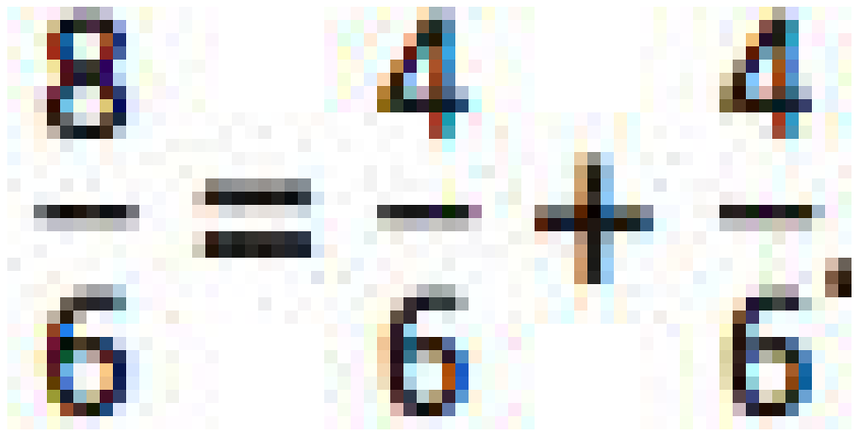
- Let’s look at this tape diagram.
- What is the whole?
- How many parts is it split into?
- What does the shaded part represent?
- What is the UNIT fraction?
- Decompose 4 fifths into a sum of unit fractions.

Modeling on a tape diagram

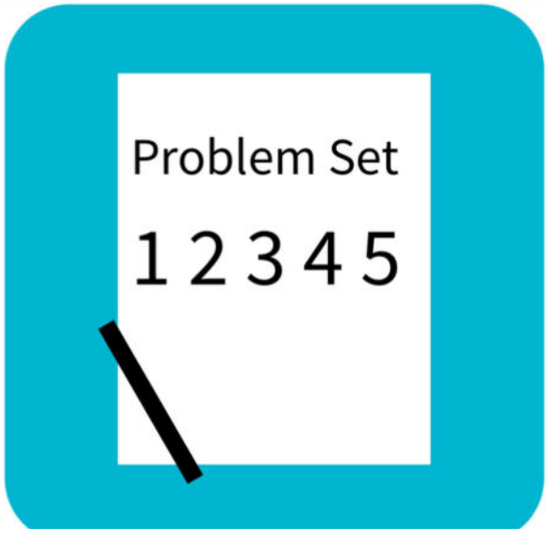
$$\frac{6}{6} = \frac{1}{6} + \frac{2}{6} + \frac{3}{6}.$$

- What would this look like on a tape diagram.
- Draw it with your partner
- Decompose it ONLY using UNIT fractions

Modeling on a tape diagram



- What would this look like on a tape diagram.
- Draw it with your partner
- Decompose it ONLY using UNIT fractions

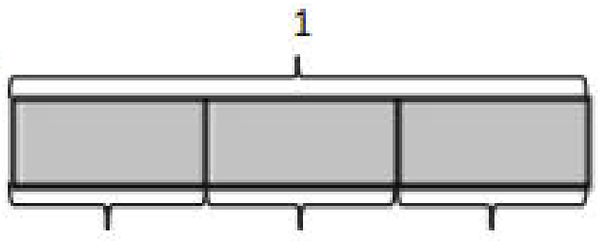


Problem Set

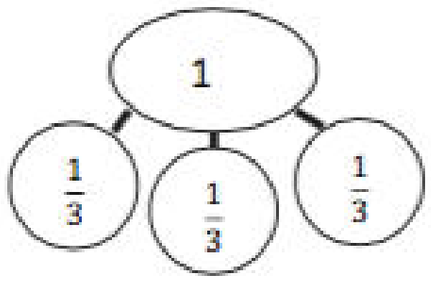
Name _____ Date _____

1. Draw a number bond, and write the number sentence to match each tape diagram. The first one is done for you.

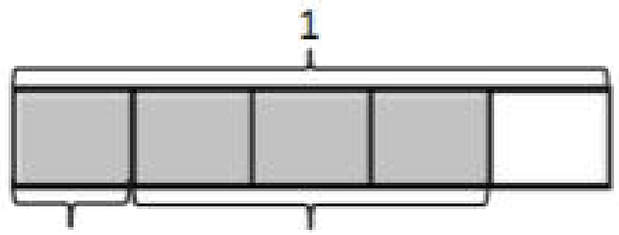
a.



$1 = \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$



b.



Debrief

- Compare the size of the shaded fractions in Problems 1(c) and 1(e). Assume the wholes are equal. What can you infer about the two number sentences?
- How do the number bonds connect to the number sentences?
- How did using the paper strips during our lesson help you visualize the tape diagrams you had to draw in Problem 2?
- What relationship does the unit fraction have with the number of units in a whole?
- How did the Application Problem connect to today's lesson?

Exit Ticket

Name _____ Date _____

1. Complete the number bond, and write the number sentence to match the tape diagram.