Eureka Math

4th Grade
Module 7
Lesson 3

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!

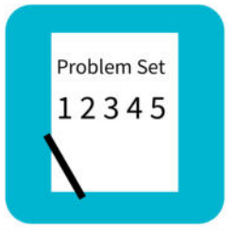
Directions for customizing presentations are available on the next slide.

Icons

Read, Draw, Write

Learning Target

Personal White Board

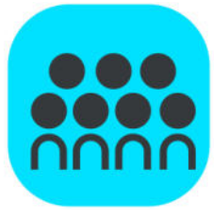


Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

Small Group Time

Lesson 3

Objective: Create conversion tables for units of time, and use the tables to solve problems.

Suggested Lesson Structure

Fluency Practice	(8 minutes)
Concept Development	(42 minutes)
Student Debrief	(10 minutes)
Total Time	**(60 minutes)**

I can create conversion tables for units of time, and use the tables to solve problems.

Convert Length Units

4km=_____m

3km=_____m

8m=_____cm

9m=_____cm

9yd=_____ft

4ft=_____in

Convert Capacity Units

1 gal=_____qt

9 gal=_____qt

1 qt=_____pt.

4 qu=_____pt

1 pt=_____c

6 pt=_____c

Application Problem

No problem today!

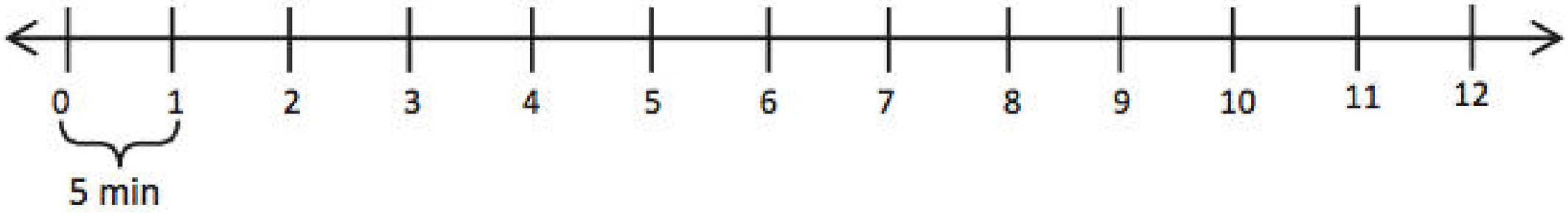
Convert minutes to seconds

This clock has two hands.
What units do the hands count?
How many seconds are in a minute?
Work with your group to complete the conversion table!

Convert hours to minutes

Let’s imagine, as we practiced in Grade 3, that we unwrap the clock on a number line.

We can use the number line to help us determine the number of minute in ONE hour.



Work with your group to complete the conversion table!

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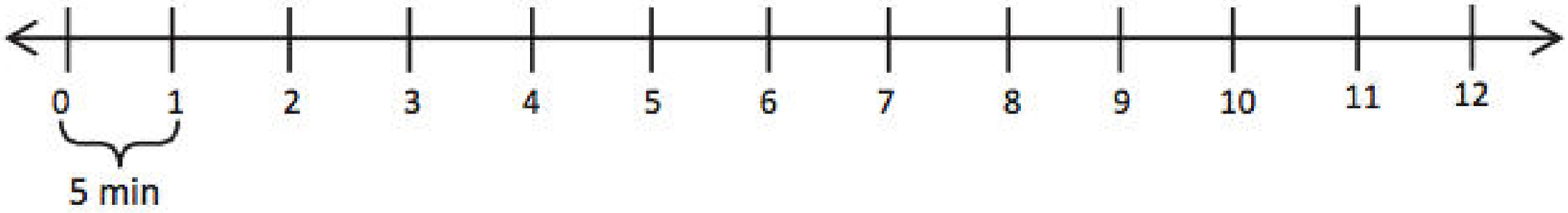


Work with your group to complete the conversion table!

Convert days to hours

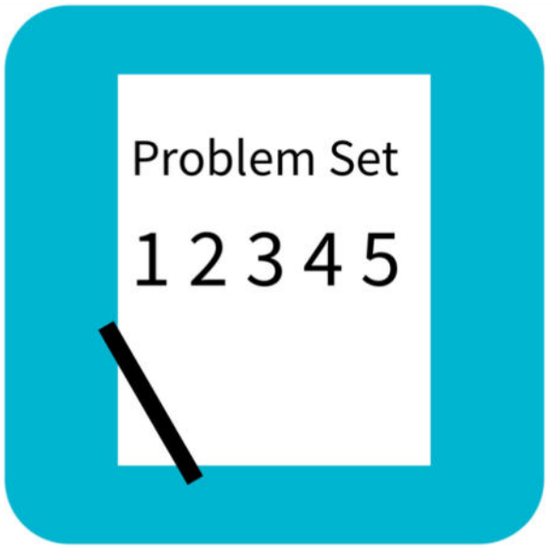
Think about how many hours in a day?
Use a number if that would help.

How many hours are in a day?

Work with your group to complete the conversion table.

Word problems

The Apollo 17 mission was completed in 12 days, 14 hours. How many hours did the mission last?

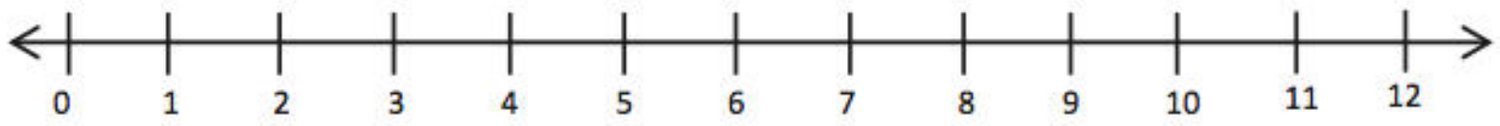


Problem Set

Name _____ Date _____

Use RDW to solve Problems 1–2.

1. Courtney needs to leave the house by 8:00 a.m. If she wakes up at 6:00 a.m., how many minutes does she have to get ready? Use the number line to show your work.



2. Giuliana's goal was to run a marathon in under 6 hours. What was her goal in minutes?

Debrief

- Explain how you could solve Problem 1 without a number line.
- Would it make sense to solve Problem 2 in seconds? Why or why not?
- Explain two strategies for solving problems converting a number of days to hours. Which method is most efficient and why? Which strategy did you use to solve Problem 7?
- Can anyone describe how time is kept in the military or in a foreign country? Is time (seconds, minutes, hours) defined as a metric or customary system?

Exit Ticket

Name _____ Date _____

The astronauts from Apollo 17 completed 3 spacewalks while on the moon for a total duration of 22 hours 4 minutes. How many minutes did the astronauts walk in space?