

Eureka Math

4th Grade Module 6 Lesson 4

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Directions for customizing presentations are available on the next slide.



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Reflecting your Teaching Style and Learning Needs of Your Students

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Screen A

ReadyGEN™ in Action

3rd Grade
Unit 3, Module A
Lesson 1

“pop-out”

Screen B

Gr3(2) U3MAL1 Sample Lesson.pptx

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ReadyGEN™ in Action

3rd Grade
Unit 3, Module A
Lesson 1

Icons



Read, Draw, Write



Learning Target



Personal White Board



Problem Set



Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



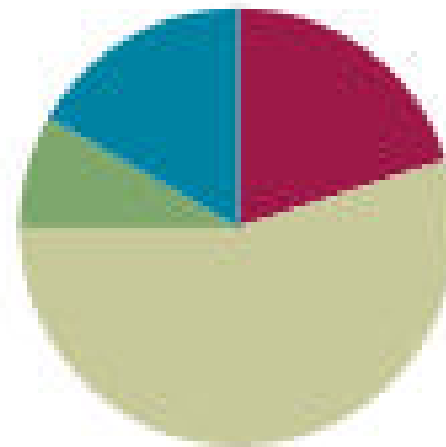
Small Group Time

Lesson 4

Objective: Use meters to model the decomposition of one whole into hundredths. Represent and count hundredths.

Suggested Lesson Structure

■ Fluency Practice	(12 minutes)
■ Application Problem	(5 minutes)
■ Concept Development	(33 minutes)
■ Student Debrief	(10 minutes)
Total Time	(60 minutes)





I can use meters to model the decomposition of one whole into hundredths. I can represent and count hundredths.



Write Fractions and Decimals Sprint



Count by Tenths

Count by twos to 20, starting at zero.

Count by 2 tenths to 20 tenths, starting at 0 tenths.

1 is the same as how many tenths?

2 is the same as how many tenths?



Count by Tenths

Let's count by 2 tenths again. This time, when you come to a whole number, say the whole number. Try not to look at the board.

Count backward by 2 tenths, starting at 2.



Read Draw Write

Read the problem.

Draw and Label.

Write a number sentence.

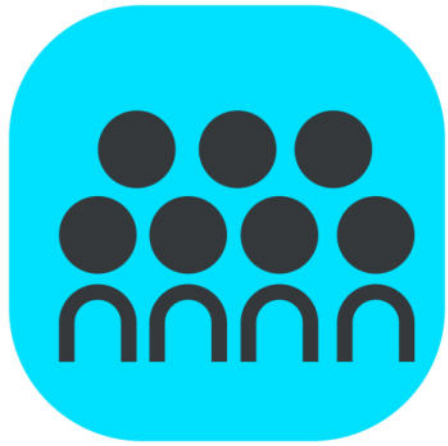
Write a word sentence.

Application Problem

Ali is knitting a scarf that will be 2 meters long. So far, she has knitted $1 \frac{2}{10}$ meters.

- a. How many more meters does Ali need to knit to complete the scarf? Write the answer as a fraction and as a decimal.
- b. How many more centimeters does Ali need to knit to complete the scarf?





Recognize 1 Centimeter as $1/100$ of a Meter

This is a meter stick. What is its length?

How many centimeters are in a meter?

A meter is made of 100 centimeters. What fraction of a meter is 1 centimeter?

In decimal form, $1/100$ meter can be written as zero point zero one meter.



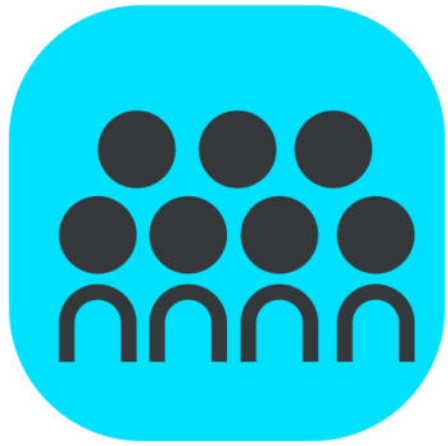
Recognize 1 Centimeter as $1/100$ of a Meter

1 **hundredth** is written as zero point zero one.

How do you think we represent $3/100$ meter in decimal form?

Talk with your partner, and write your thoughts on your personal white board.

Yes. $3/100$ meter can be shown as a fraction or in decimal form.



Recognize 1 Centimeter as $1/100$ of a Meter

This 1-meter paper strip is partitioned into 10 equal parts.

Let's shade $1/10$ meter. How many centimeters equal $1/10$ meter?

How many hundredths of a meter equal $1/10$ meter?

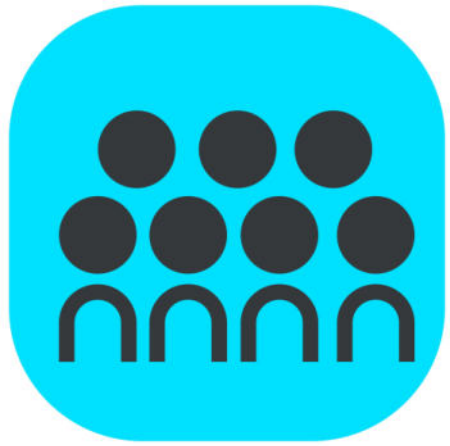


Recognize 1 Centimeter as $1/100$ of a Meter

$$1/10 \text{ m} = 10/100 \text{ m}$$

We can write this number as a fraction. We can also write it in decimal form.

This is how you express $10/100$ meters as a decimal.



Recognize 1 Centimeter as $1/100$ of a Meter

Let's decompose $1/10$ meter into 10 smaller units to prove that this number sentence, $0/1 \text{ m} = 0.10 \text{ m}$, is true.

Is each of these new smaller units $1/100$ meter and 1 centimeter in length?

Explain to your partner why.



Name hundredths as tenths and some hundredths

How many tenths of this meter strip of paper are shaded?

Use the tape diagram in tenths template to represent this amount. Lightly shade 2 tenths using a pencil.



Name hundredths as tenths and some hundredths

$$2/10 \text{ m} + 5/100 \text{ m}$$

Let's shade in $5/100$ meter more. What will you have to do first in order to shade $5/100$ meter?

How many hundredths of a meter are shaded here?

How many hundredths of a meter are shaded here?

How many hundredths of a meter are shaded altogether?

Explain your thinking.



Name hundredths as tenths and some hundredths

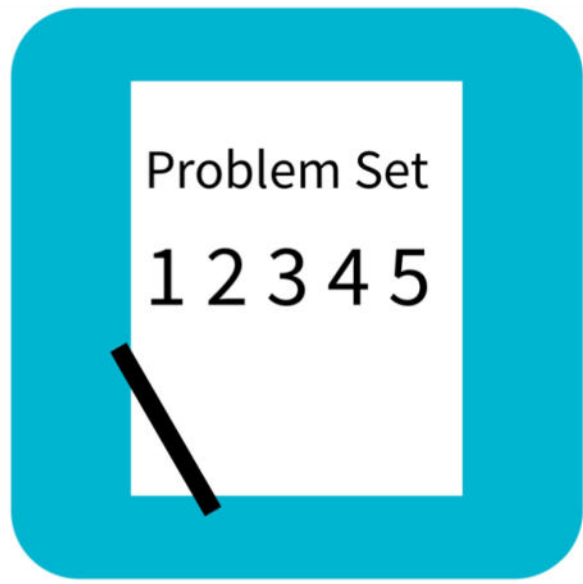
0.25

25 hundredths can be written as a decimal in this way.

So, 25 hundredths is made of 2 tenths and...?

$$2/10 + 5/100 = 25/100$$

Explain to your partner why this is true.

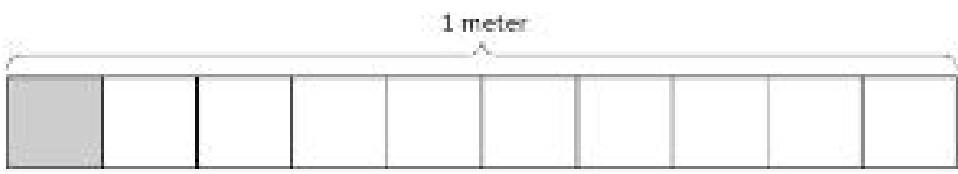


Problem Set

Name _____

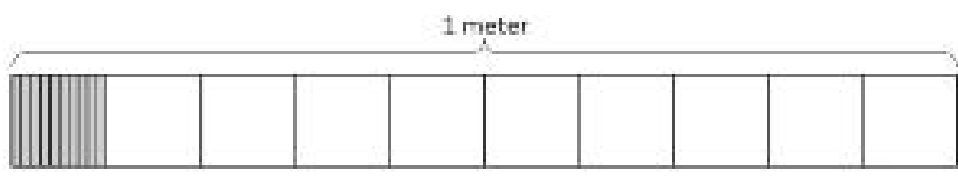
Date _____

1. a. What is the length of the shaded part of the meter stick in centimeters?



b. What fraction of a meter is 1 centimeter?

c. In fraction form, express the length of the shaded portion of the meter stick.

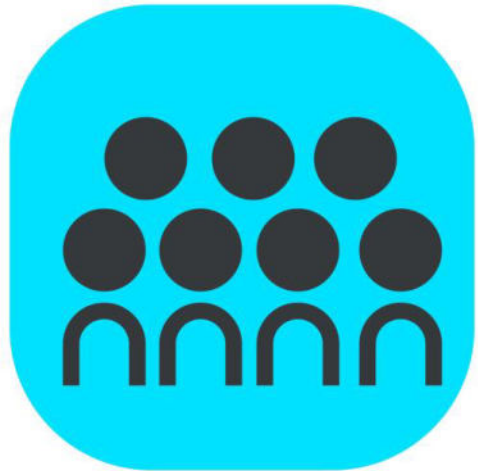


d. In decimal form, express the length of the shaded portion of the meter stick.

Debrief

Participate in the discussion by...

- Thinking about the question.
- Sharing your work.
- Explaining your strategy.
- Listening to others.



Debrief

In Problem 2(b), you showed that $1/10 \text{ m} = 10/100 \text{ m}$. Write each number in decimal form. What do you notice?

In Problem 5, how did you know how many tenths you could take out of the hundredths to make each number bond? Use a specific example to explain your reasoning.

Explain how hundredths are different from tenths.

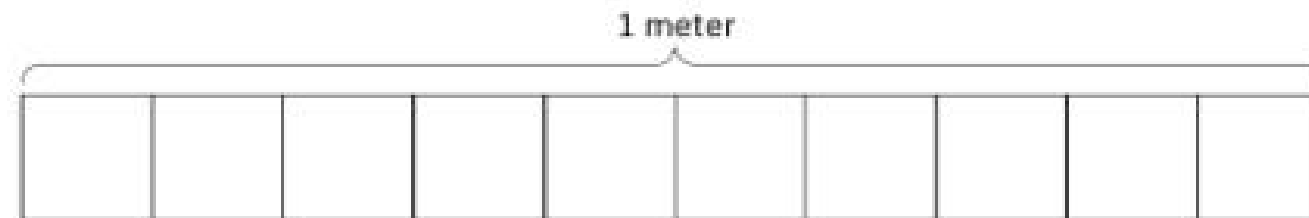
Exit Ticket

Name _____

Date _____

1. Shade in the amount shown. Then, write the equivalent decimal.

$$\frac{6}{10} \text{ m}$$



2. Draw a number bond, pulling out the tenths from the hundredths. Write the total as the equivalent decimal.

a. $\frac{62}{100} \text{ m}$

b. $\frac{27}{100}$