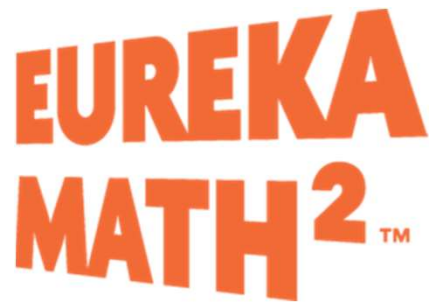




Module 4 - Lesson 9:

Add decimal numbers by using different methods.

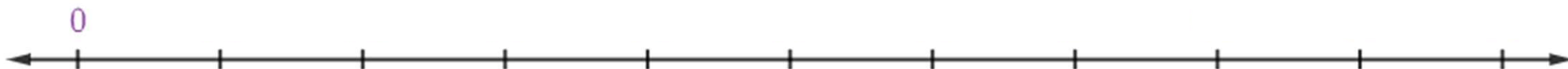
CCSS Standard – 5.NBT.B.7

FLUENCY (10-min)

Counting on the Number Line by Tenths and Hundredths

Use the number line to count by **TENTHS** to **1.0**.

The first number you say is **0**. Ready?



Now count forward by **HUNDREDTHS**.

Rename the tenths as hundredths.

FLUENCY (10-min)**Whiteboard Exchange: Standard Form to Unit Form**

When I give the signal, read the number shown in standard form.

Ready?

Now write the number in unit form.

$0.3 = \underline{\hspace{2cm}}$

$1.3 = \underline{\hspace{2cm}}$

Now write the number in unit form using only tenths.

$7.5 = \underline{\hspace{2cm}}$

$0.08 = \underline{\hspace{2cm}}$

Now write the number in unit form using only tenths.

$0.18 = \underline{\hspace{2cm}}$

Now write the number in unit form using only hundredths.

$0.94 = \underline{\hspace{2cm}}$

Now write the number in unit form using only hundredths.

FLUENCY (10-min)

Whiteboard Exchange: Make the Next Whole



Determine the unknown part to make the next whole number.

Write and complete the equation:

$$\frac{8}{10} + \underline{\hspace{2cm}} = 1$$

$$\underline{\hspace{2cm}} + \frac{6}{10} = 1$$

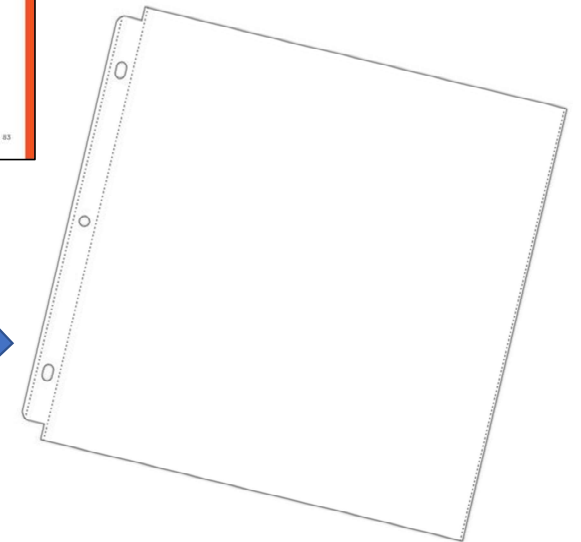
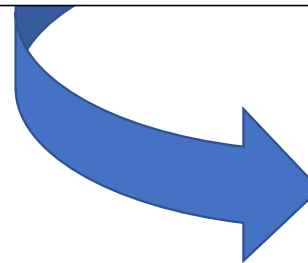
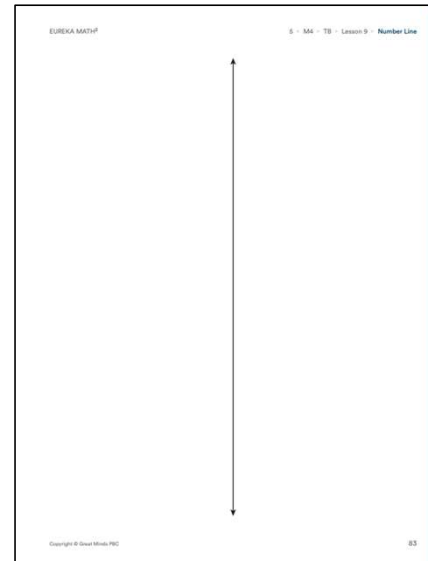
$$\frac{1}{10} + \underline{\hspace{2cm}} = 1$$

$$\underline{\hspace{2cm}} + \frac{3}{10} = 1$$

LAUNCH (10-min)

Use a number line to add decimal numbers

Remove Number Line - page 83 of LEARN book
and place it in the protective sleeve.



LAUNCH (10-min)

Use a number line to add decimal numbers

At what numbers will you begin and end your number line? Why?

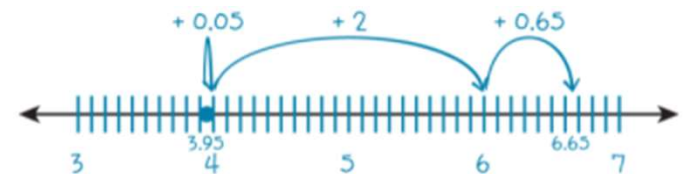
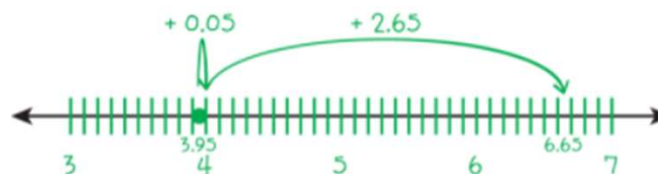
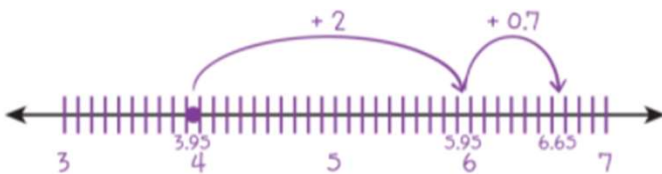
Next, use the number line to solve the problem.

Yuna runs 3.95 kilometers one day and 2.7 kilometers the next day.

Use a number line to find the total number of kilometers Yuna runs.

Discuss: How can a number line be helpful for adding decimal numbers?

Discuss: How is using a number line to add decimals like using it to add whole numbers?



LEARN (30-min)

Add Decimal Numbers by Making the Next Unit

What is a reasonable estimate for the sum? Why?

$$\begin{array}{c} 2.9 + 6.6 \\ \downarrow \quad \downarrow \\ 3 + 7 = 10 \end{array}$$

Let's try a number bond method to decompose the decimals:

$$\begin{array}{c} 2.9 + 6.6 \\ \swarrow \quad \searrow \\ 0.1 + 6.5 \end{array}$$

$$3.0 + 6.5 = 9.5$$

Why is $3 + 6.5$ simpler to add mentally?

Is 9.5 reasonable?

LEARN (30-min)

Add Decimal Numbers by Using Unit Form

0.74 + 0.2

YOUR TASK: Rename the decimal numbers in UNIT FORM and in FRACTION FORM

Hint: Write them as tenths and hundredths; then write them as only hundredths

Unit Form	Fraction Form
$0.74 + 0.2 = 7 \text{ tenths } 4 \text{ hundredths} + 2 \text{ tenths}$	$0.74 + 0.2 = \frac{7}{10} + \frac{4}{100} + \frac{2}{10}$
$0.74 + 0.2 = 74 \text{ hundredths} + 2 \text{ tenths}$	$0.74 + 0.2 = \frac{74}{100} + \frac{2}{10}$
$0.74 + 0.2 = 74 \text{ hundredths} + 20 \text{ hundredths}$	$0.74 + 0.2 = \frac{74}{100} + \frac{20}{100}$

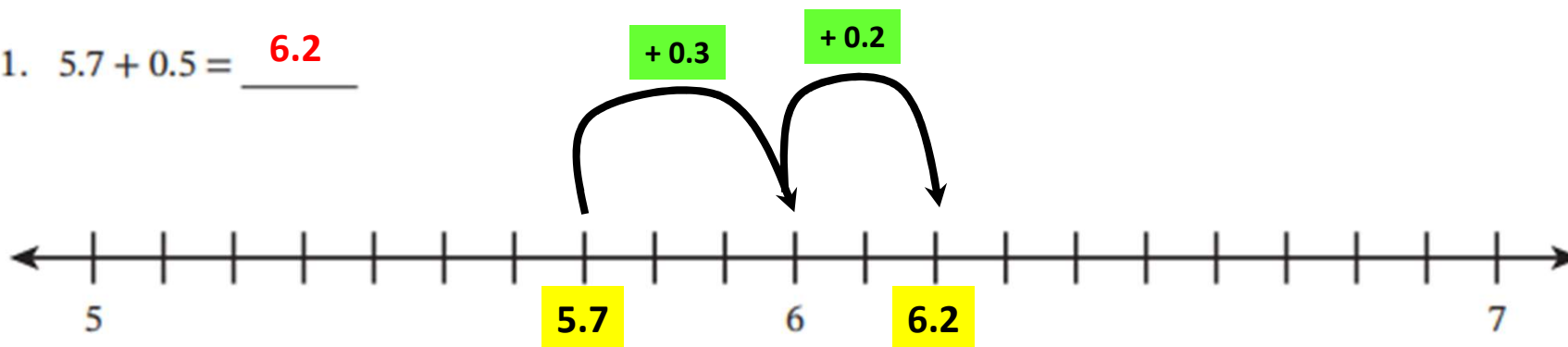
What do you notice about the units in these addends?

How are the UNIT forms and the FRACTION forms alike or different?

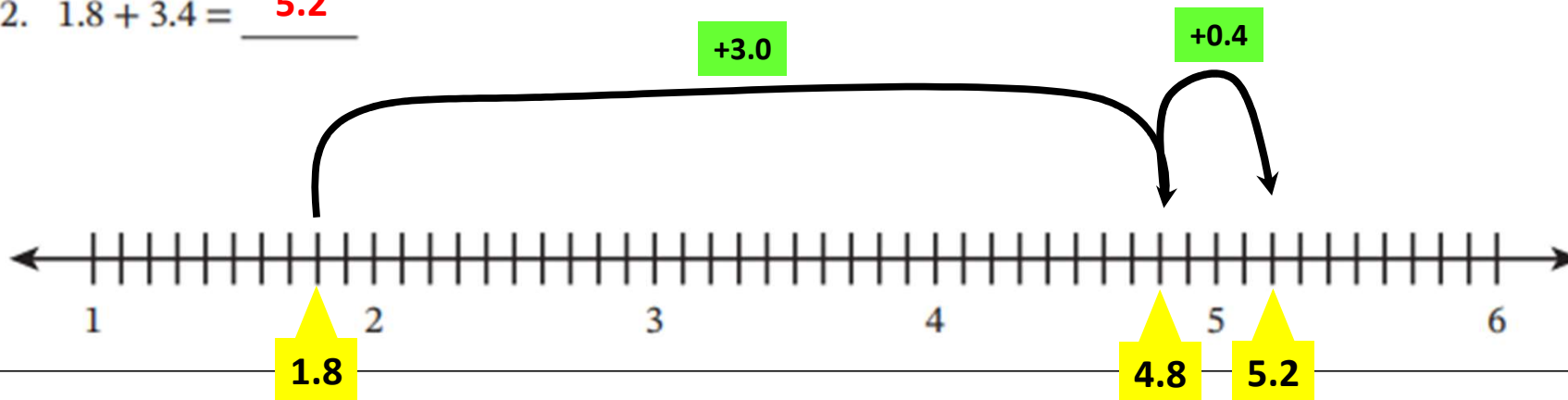
LEARN book page 85.

Add. Show your work by using a number line.

1. $5.7 + 0.5 = \underline{6.2}$



2. $1.8 + 3.4 = \underline{5.2}$



LEARN book page 85.

Add. Show your work by using a number bond.

4. $0.7 + 0.5 =$ _____



5. $0.06 + 0.09 =$ _____



LAND (10-min)

Exit Ticket

Exit Ticket – PAGE 89

Small Group Time:
Problem Set Page 86-88

Homework:
Page 59 APPLY BOOK



Name _____		Date _____		 9
Add. Show your work.				
1. $4.8 + 0.3 =$ _____				
2. $2.4 + 5.7 =$ _____				
3. $0.08 + 0.04 =$ _____		4. $0.98 + 1.03 =$ _____		
5. $3.26 + 6.95 =$ _____		6. $4.97 + 1.06 =$ _____		
7. $4.07 + 1.34 =$ _____		8. $6.13 + 2.98 =$ _____		