## EUREKA MATH ${ }^{2}$.

## Module 4 - Lesson 30:

Create and solve real-world problems for given numerical expressions involving decimals.

CCSS Standard - 5.OA.A. 1 / 5.OA.A. 2

```
FLUENCY (10-min)
```

Whiteboard Exchange: Draw Geometric Figures
On my signal, read the name of the figure and then draw an example of the figure on your whiteboard. Ready?
line segment $A B$
line $C D$

| $\overline{D Y}$ |
| :---: |
|  |
|  |
|  |
|  |
|  |

On my signal, read the name of the figure and then draw an example of the figure
 on your whiteboard. Ready?



```
FLUENCY (10-min)
```

Whiteboard Exchange: Draw Geometric Figures
On my signal, read the name of the figure and then draw an example of the figure on your whiteboard. Ready?


Raise your hand when you know the answer to each question.
Wait for my signal to say the answer.
$\angle O K B$ is a straight angle.
How many degrees are in a straight angle?

## $180^{\circ}$

How many degrees are in $\angle L K B$ ? $80^{0}$
What type of angle is $\angle L K B$ ? acute


Write a subtraction equation to find the measures of $\angle L K O$. Write the measure of $\angle L K O$.

What type of angle is $\angle$ KKo? obtuse

Raise your hand when you know the answer to each question.
Wait for my signal to say the answer.
$\angle \mathrm{JHF}$ is a straight angle.
How many degrees are in a straight angle?

## $180^{\circ}$

How many degrees are in $\angle L H J$ ? 500
What type of angle is $\angle L H J$ ? acute


Write a subtraction equation to find the measures of $\angle L H F$. Write the measure of $\angle \mathrm{LHF}$.

What type of angle is $\angle$ LLHF? obtuse

Raise your hand when you know the answer to each question.
Wait for my signal to say the answer.
$\angle C B A$ is a straight angle.
How many degrees are in a straight angle?

## $180^{\circ}$

How many degrees are in $\angle C B D$ ? $140^{0}$
What type of angle is $\angle C B D ? ~ 0$ btuSe


Write a subtraction equation to find the measures of $\angle D B A$. Write the measure of $\angle D B A$.

What type of angle is $\angle D B A$ acute

Raise your hand when you know the answer to each question. Wait for my signal to say the answer.
$\angle \mathrm{LMN}$ is a right angle.
How many degrees are in a right angle?

## $90^{\circ}$

How many degrees are in $\angle L M K$ ? $30^{0}$
What type of angle is $\angle L M K$ ? CUte


Write a subtraction equation to find the measures of $\angle K M N$. Write the measure of $\angle K M N$.

What type of angle is $\angle k M N$ ? acute

## LAUNCH (5-min)

Match an expression to a word problem context.

Read each problem to yourself.
You do not need to do any calculations.

| Problem A | Problem B |
| :--- | :--- |
| Blake ran 3.56 kilometers on Saturday. | Mr. Evans buys 2 greeting cards and |
| He ran 5.05 kilometers on Sunday. <br> Sasha ran twice as far as Blake over the <br> weekend. How far did Sasha run? | 1 roll of wrapping paper. Each card costs <br> \$3.56. The roll of wrapping paper costs <br> \$5.05. How much does Mr. Evans spend? |
|  |  |

Now, look at the expression.
THINK-PAIR-SHARE: Which problem does the expression represent? Why?
What change can we make to the expression so that it represents problem A? Why?

## LEARN (35-min)

## Brainstorm Word Problem Situations

## THINK-PAIR-SHARE:

Let's list some real-world scenarios that might involve decimals.

- Buying items at a store.
- Making a recipe
- Measuring things
- Running a race
- Riding a bike
- Filling containers
...so many options
Now, what operations could we use in our real-world scenarios?
- Adding up the miles I ride on my bike.
- Subtracting how far I ran Saturday compared to Sunday.
- Multiplying - riding twice as far on my bike compared to my friend.
- Dividing the total miles, I rode on my bike by the number of days.

```
LEARN (35-min)
```

Write and Solve Word Problems to Represent Expressions and Tape Diagrams

$$
1.3+(4 \times 0.75)
$$

A notebook costs $\$ 1.30$, and an eraser costs $\$ 0.75$. How much does it cost to buy 1 notebook and 4 erasers.

Eddie buys 1 bag of red apples that weighs 1.3 kilograms. He buys 4 bags of green apples that each weigh 0.75 kilograms. How many kilograms of apples does Eddie buy?

```
LEARN (35-min)
```

Write and Solve Word Problems to Represent Expressions and Tape Diagrams

Using the tape diagram below, construct a context that could apply to it.
Be ready share out.


Noah has $\$ 10.34$. He buys a toy that costs $\$ 4.12$. He spends the rest of his money when he buy 2 sandwiches. Each sandwich costs the same amount. How much does each sandwich cost?

Yuna has 10.34 meters of rope. She uses 4.12 meters to make a climbing rope. She cuts the rest of the rope into 2 equal parts. How many meters of rope are in each part?

```
LEARN (35-min)
```

Write and Solve Word Problems to Represent Expressions and Tape Diagrams

## LEARN book page 275.

Write a word problem that can be represented by the expression or tape diagram. Then solve the word problem.

1. $(1.15+0.9) \div 5$

Riley combined 1.15 kilograms of almonds and 0.9 kilograms of cashews in a large bowl. She then divided the mix evenly into 5 containers. How many kilograms of the mix are in each container?

## $(1.15+0.9) \div 5$ $2.05 \div 5$ 0.41 kg

```
LEARN (35-min)
```

Write and Solve Word Problems to Represent Expressions and Tape Diagrams

## LEARN book page 275.



Leo walks 3.4 kilometers each day for 3 days. He walks 6.9 kilometers on the fourth day. What is the total number of kilometers Leo walks in 4 days?

## $(3.4 \times 3)+6.9$ <br> $10.2+6.9$

17.1 km

## LEARN (35-min)

Write and Solve Word Problems to Represent Expressions and Tape Diagrams

LEARN book page 275.

$$
(7 \times 1.25)-(3 \times 2.45)
$$

At a bake sale, Tyler buys 7 cookies and Julie buys 3 muffins. Each cookie costs \$1.25 and each muffin costs $\$ 2.45$. How much more does Tyler spend at the bake sale than Julie?

$$
\begin{gathered}
(7 \times \$ 1.25)-(3 \times \$ 2.45) \\
\$ 8.75-\$ 7.35 \\
\$ 1.40
\end{gathered}
$$

```
LAND (10-min) Exit Ticket
```

| Name |
| :--- |
| Write a word problem that can be represented by the expression. Then solve the word problem. |
| $5-(1.15+3.61)$ |

Exit Ticket - PAGE 281

## Small Group Time:

Problem Set Page 277-279

## Homework:

Page 189 APPLY BOOK

