## Warm Up

3. $\frac{9}{11}+\frac{1}{11}$
4. $\frac{1}{3}+\frac{2}{17}$
5. $\frac{6}{19}+\frac{2}{3}$
6. $\frac{1}{3}+\frac{1}{6}$
7. $\frac{2}{11}+\frac{1}{2}$
8. $\frac{4}{11}+\frac{3}{8}$

## Warm Up Answers

3. $\begin{aligned} & \frac{9}{11}+\frac{1}{11} \\ = & \frac{10}{11}\end{aligned}$
4. $\frac{6}{19}+\frac{2}{3}$
$=\frac{56}{57}$
5. $\begin{aligned} & \frac{2}{11}+\frac{1}{2} \\ = & \frac{15}{22}\end{aligned}$
6. $\begin{gathered}\frac{1}{3}+\frac{2}{17} \\ =\frac{23}{51}\end{gathered}$
7. $\begin{aligned} & \frac{1}{3}+\frac{1}{6} \\ & =\frac{1}{2}\end{aligned}$
8. $\begin{aligned} & \frac{4}{11}+\frac{3}{8} \\ = & \frac{65}{88}\end{aligned}$

## Essential Question:

How can you add and subtract decimals?

## Lesson Objective:

Students will be able to:
use a formal rule to add and subtract decimals.

## Self-Evaluation Scale

| 4 | I can teach other students how to use a model and a formal rule to <br> divide with mixed numbers. |
| :--- | :--- |
| 3 | I can use a model and a formal rule to divide with mixed numbers. <br> Sivide with mixed numbers. |
| 2 | I do not know how to use a model and a formal rule to divide with <br> mixed numbers. |
| 1 | I model and a formal rule to |
| 1 |  |

## GO Key Idea

## Adding and Subtracting Decimals

To add or subtract decimals, write the numbers vertically and line up the decimal points. Then bring down the decimal point and add or subtract as you would with whole numbers.

## 1 Adding Decimals

a. Add $8.13+2.76$ Estimate $8.13+2.76 \approx 8+3=11$

$$
\begin{array}{|r}
8.13 \\
\hline \text { Line up the decimal points. } \\
\hline+2.76 \\
\hline 10.89
\end{array}
$$

Add as you would with whole numbers.
Reasonable? $10.89 \approx 11$
b. $\quad$ Add $1.459+23.7$.
$\begin{aligned} & 1.459 \\ & +23.700 \\ & 25.159\end{aligned} \longleftarrow\left\{\begin{array}{l}\text { Insert zeros so that both numbers have } \\ \text { the same number of decimal places. }\end{array}\right.$

## 2 Subtracting Decimals

a. Subtract $5.508-3.174$. Estimate $5.508-3.174 \approx 6-3=3$

-3.174 Subtract as you would with whole numbers.
Reasonable? $2.334 \approx 3$
b. Subtract 21.9-1.605.


## OYO!

## Add or subtract.

1. $4.206+10.85$
2. $15.5+8.229$
3. $78.41+90.99$
4. $6.34-5.33$
5. $27.9-0.905$
6. $18.626-13.88$

## (3) Real-Life Application

Your meal at the school cafeteria costs $\$ 3.45$. Your friend's meal costs $\$ 3.90$. You pay for both meals with a $\$ 10$ bill. How much change do you receive?
Use a verbal model to solve the problem.

$$
\begin{aligned}
\underset{\text { change }}{\text { amount of }} & =\frac{\text { amount }}{\text { given }}-\left(\begin{array}{c}
\text { cost of } \\
\text { your meal }
\end{array}+\begin{array}{c}
\text { cost of } \\
\text { friend's meal }
\end{array}\right) \\
& =10.00-(3.45+3.90) \\
& \text { Substitute values. } \\
& =10.00-7.35 \\
& =2.65
\end{aligned}
$$

$\therefore$ So, you receive $\$ 2.65$.

## 4 Real-Life Application



The Lincoln Memorial Reflecting Pool is approximately rectangular. Its width is 50.9 meters, and its length is 618.44 meters. You walk the perimeter of the pool. About how many meters do you walk?

Draw a diagram and label the dimensions.


## OYO 2!

7. WHAT IF? In Example 3, your meal costs $\$ 4.10$ and your friend's meal costs $\$ 3.65$. You pay for both meals with a $\$ 20$ bill. How much change do you receive?
8. Find the perimeter of the triangle.


## Assignment

Complete problems:
5, 9, I2, I6, 23, 24, 28, 30, \& 35
on pages $82 \& 83$ in your Big Ideas Text Book.

## Essential Question:

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## Lesson Objective:

Students will be able to:
use a formal rule to add and subtract decimals.

## Self-Evaluation Scale

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| 1 |  |

## Homework

Monday IO/24: In your Big Ideas Record and Practice Journal page 29-30

Tuesday IO/25 :In your Big Ideas Record and Practice Journal page 46.

