## Week of 6/1 to 6/5/2020

## Thursday; 6/4/2020 Estimate Sums and Differences of Decimals

Standard: 5.NBT. 7
Add, subtract, multiply and divide decimals to the hundredths using concrete models or drawings and strategies based upon place value, properties of operations and/or the relationship between addition and subtraction. Relate the strategy to a written method and explain the reasoning used.

Objective: Use rounding and compatible numbers to estimate sums and differences

## Instructional learning videos to support the review objective:

https://www.khanacademy.org/math/cc-fifth-grade-math/imp-addition-and-subtraction-3/imp-adding-decimals-intro/v/estimating-adding-decimals

## https://www.khanacademy.org/math/cc-fifth-grade-math/subtract-decimals/imp-subtracting-decimals-

 intro/v/estimating-subtracting-decimals1. Practice Worksheet: Guided Practice 2-2
2. Problem of the Day: (POD): Laura and Soraya are going to Papa Gino's for dinner after volleyball practice. A large pizza costs $\$ 12.99$ and two large sodas cost $\$ 2.99$ each. Maria estimates she and Soraya will need $\$ 20.00$ to pay for the pizza and soda. Assuming there is no sales tax (sales tax holiday), is Maria's estimate correct? Explain or show your thinking.
3. SPLAT

4. New!! ONLINE PRACTICE: ST MATH Log on 30 MINUTES/DAY (Log on through CLEVER).

## Additional Support Games:

https://www.splashlearn.com/common-core-math/fifth-grade/number-and-operations-in-base-ten/7
https://www.ixl.com/math/grade-5/round-decimals

## Additional Online Resources:

- EnVisions (through CLEVER) • Imagine Math


## Another Example

You can estimate differences.
Estimate 22.8 - 13.9.

## One Way

Round each number to the nearest whole number.

$$
\begin{array}{r}
22.8 \longrightarrow \begin{array}{c}
23 \\
-13.9
\end{array} \quad-\quad 14 \\
\hline 9
\end{array}
$$

$22.8-13.9$ is about 9 .

## Another Way

Substitute compatible numbers.
$22.8 \longrightarrow \begin{gathered}25 \\ -13.9\end{gathered} \frac{-15}{10}$
$22.8-13.9$ is about 10 .

## Guided Practice

## Do You Understand?

1. © MP. 3 Construct Arguments In the example above, which estimate is closer to the actual difference? How can you tell without subtracting?
2. In the example on page 66, the students collected more pounds of dog food in Week 4 than in Week 3. Estimate about how many more.

## Do You Know How?

In 3-10, estimate the sums and differences.
3. $49+22.88$
4. $86.9-18$
5. $179+277.1$
6. $23.2-9.71$
7. $23.8-4.7$
8. $87.2+3.9$
9. $38.9-21.4$
10. $576+94.6$

## Independent Practice

In 11-18, estimate each sum or difference.
11. $79.1+32.4$
12. $788.9-572$
13. $837+488.12$
14. $418.5-23.7$
15. $2.9+3.9$
16. $\$ 12.99-\$ 3.95$
17. $8.1+3.7+7.9$
18. $3.8+4.1+3.3$

## Math Practices and Problêm Solving

19. © MP. 3 Construct Arguments The cost of one DVD is \$16.98, and the cost of another DVD is \$9.29. Ed estimated the cost of the two DVDs to be about $\$ 27$. Is his estimate higher or lower than the actual cost? Explain.
20. Higher Order Thinking A teacher is organizing a field trip. Each bus can seat up to 46 people. Is it better to estimate a greater or lesser number than the actual number of people going on the field trip? Why?
21. The size and shape of Golden Gate Park are often compared to the size and shape of Central Park. About how many more acres does Golden Gate Park cover than Central Park?


Common Core Assessment
22. Three rock samples have masses of 74.05 grams, 9.72 grams, and 45.49 grams. A scientist estimates the total mass of the samples by rounding each mass to the nearest whole number. Which lists the numbers will he add?
(A) 75,10 , and 46
(B) 74.1, 9.7, and 45.5
(C) 74,10 , and 45
(D) 75,10 , and 50
23. Umberto buys a game for $\$ 7.89$ and some batteries for $\$ 5.49$. He pays with a $\$ 20$ bill. Which is the best estimate of how much change he should get?
(A) $\$ 5.00$
(B) $\$ 7.00$
(C) $\$ 13$
(D) $\$ 17.00$


