Grade 5 Math

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.

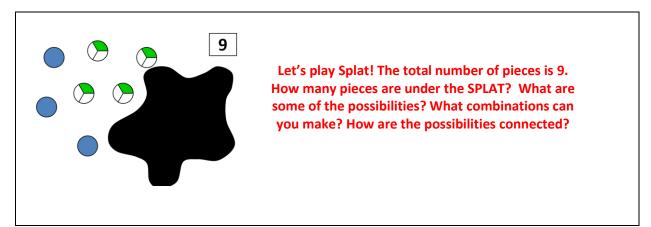
Objective: Use rounding and compatible numbers to estimate sums and differences

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-decimals

- 1. 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.

22.8 – 13.9 is about 9.

Another Way

Substitute compatible numbers.

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?

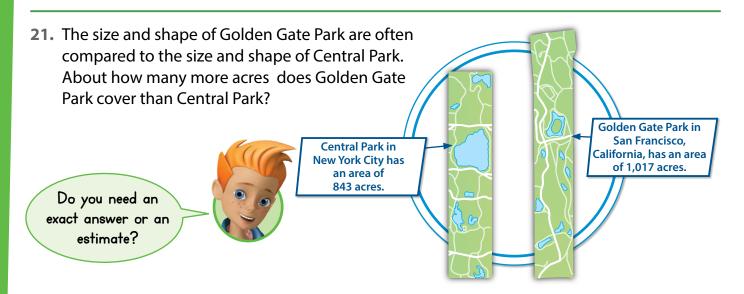
In **3–10**, estimate the sums and differences.

Independent Practice *

In 11–18, estimate each sum or difference.

Math Practices and Problem 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?



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- 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
 - © 74, 10, and 45
 - ① 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
 - © \$13
 - \$17.00

