Unit 5, Lesson 7

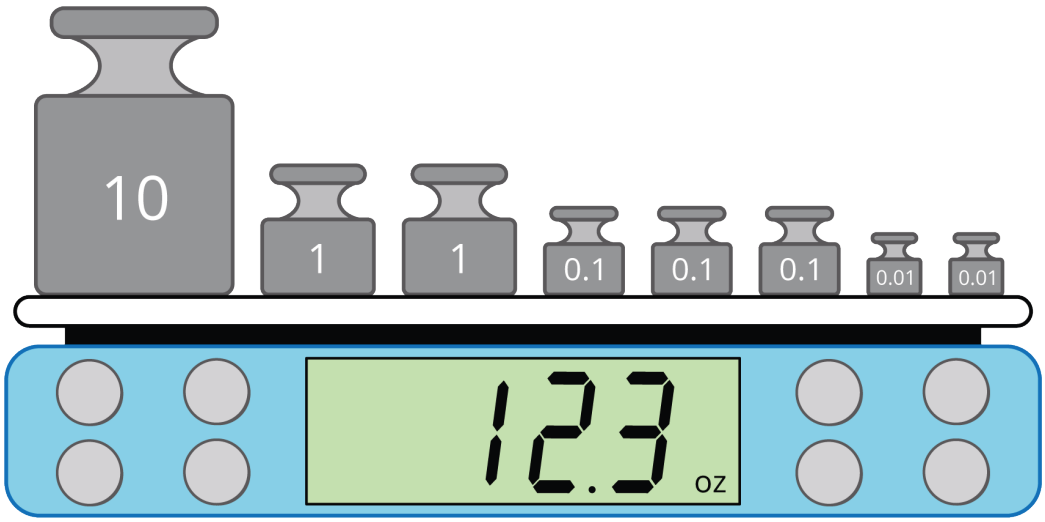
Round Doubloons

Let's explore rounding with decimals.

Warm-up

Notice and Wonder: A Digital Scale

What do you notice? What do you wonder?



Activity 1

Gold Doubloons



- Doubloons made before 1728 weigh 6.867 grams.
- Doubloons made after 1728 weigh 6.766 grams.

1. The scale measures weight to the nearest tenth of a gram.

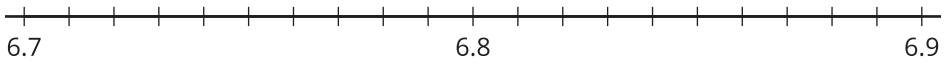
   Was the doubloon on the scale made before or after 1728?



2. The same doubloon is put on a different scale that measures to the nearest gram. Could you use that measurement to know if the coin was made before or after 1728? Explain or show your reasoning.

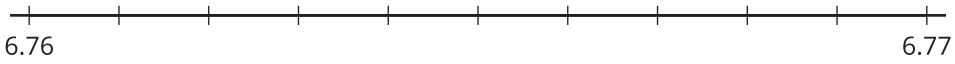
3. a. Which doubloons weigh more, the ones made before 1728 or the ones made after 1728? Explain or show your reasoning.

   b. Show the 2 doubloon weights in grams on the number line.

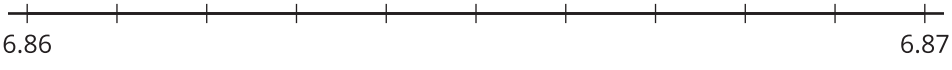


4. Show each doubloon weight on the number line. Which hundredth of a gram is each weight closer to?

   a. 6.766 grams



   b. 6.867 grams



Activity 2

Exact or Approximate?

Decide if you think each quantity is exact or estimated. Explain your reasoning.

1. There are 14 pencils on the desk.

2. The population of Los Angeles is 12,400,000.

3. It's 2.4 miles from the school to the park.

4. The runner finishes the race in 19.78 seconds.