Approximating Values Lesson

Using the value: 4,875.1289

1) Rewrite the value using 3 significant figures.

2) Round the value to the nearest 100.

3) Round the value to 2 decimal places.

Explanation:

1) We are asked to rewrite the value in 3 significant figures. We would need to use the 3 largest non-zero number available and round based on the position of the ending place. **4,87**5.1289 = 4,880

2) We would need to first identify the hundreds place (4,875.1289). We would look at the integer in the tens place to tell us if we round up or down. If the value is 5 or more, round up. The tens place is 7, so we round up.

4,875.1289 = 4,900

3) Locate the last decimal place in question: 4,875.1289

Look to the next place (hundredths). If the value is 5 or more, round up. The value is 8 this means that we would round up.

4,875.1289 = 4,875.13