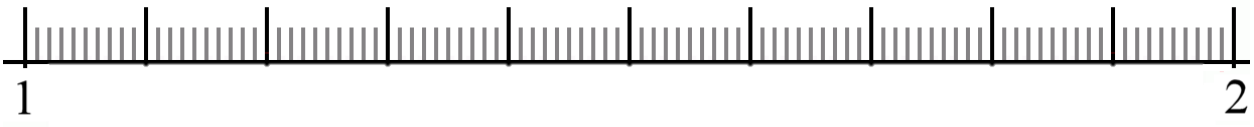
Name: _____ Rounding Decimal Numbers



1. *On the above number-line segment, the numbers 1 and 2 are <u>one unit</u> apart. The <u>unit</u> distance between 1 and 2 has been divided into tenths with large tick marks. Each tenth has been further divided into ten equal parts with smaller tick marks. Each of these smaller parts is .01 unit.*

   Mark and ***label*** these points on the number line:

   1.10 1.6 1.06 1.52 2.0 1.78

2. How many *hundredths* are there between 1 and 2? _____

   How many *tenths* are there between 1 and 2? _____

   How many *tenths* are there between 1.1 and 1.2? _____

   How many *hundredths* are there between 1.1 and 1.2? _____

   How many *tenths* are there between 1.4 and 1.7? _____

   How many *hundredths* are there between 1.4 and 1.7? _____

3. *You can round a decimal number to a whole number by finding the whole number that the decimal number is nearest to. A decimal number <u>midway</u> between two whole numbers <u>rounds up</u>.*

   On the number line above, **mark** and **label** the **<u>midpoint</u>** between the whole numbers 1 and 2.

   What is 1.4 rounded to the nearest whole number? _____

   What is 1.8 rounded to the nearest whole number? _____

   What is 1.5 rounded to the nearest whole number? _____

   What is 1.48 rounded to the nearest whole number? _____

   What is 1.61 rounded to the nearest whole number? _____

   What is 1.50 rounded to the nearest whole number? _____

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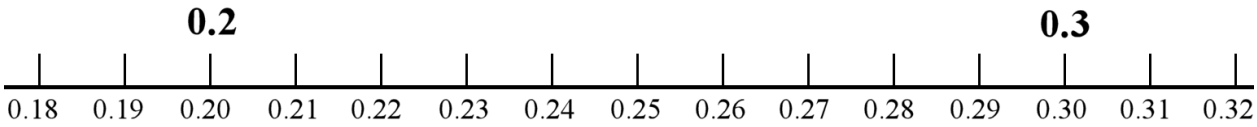
To round a decimal number to the nearest tenth, we find the tenth that it is nearest to. A decimal number <u>midway</u> between two tenths rounds up.

4. Here is a section of the number line marked and labeled in both tenths and hundredths:



What is the midpoint between **0.2** and **0.3**? _____

What is **.**26 rounded to the nearest tenth? _____

What is .25 rounded to the nearest tenth? _____

What is .19 rounded to the nearest tenth? _____

What is .23 rounded to the nearest tenth? _____

What is .32 rounded to the nearest tenth? _____

5. You can also round decimal numbers without a number line just like you round whole numbers. You find the place you are rounding to, look at the digit directly to its right, and apply the same rules you have always used.

<u>Examples</u>: When rounded to the nearest *<u>tenth</u>*, the decimal number 3**.**46 rounds to **3.5**. WHY? When rounded to the nearest *<u>unit</u>*, 3**.**46 rounds to **3**.

1. What is 4.52 rounded to the nearest *tenth*? _____

   Rounded to the nearest *unit*? _____

2. What is $2.65 rounded to the nearest dollar? _____

3. What is $17.45 rounded to the nearest dollar? _____

   Rounded to the nearest *ten* dollars?_____

4. What is $4.47 rounded to the nearest *ten cents*? _____

5. What is $8.97 rounded to the nearest *ten cents*? _____

6. What is 96¢ rounded to the nearest *ten cents*? _____