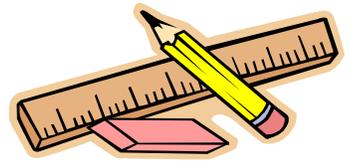


Name _____ Period _____ Date _____

How to read a line segment

Directions: In order to measure an item using a ruler, you must start by figuring out how the ruler is counting!



In Math class, you have learned all different ways of counting. You have learned to count by:

1's : 1, 2, 3, 4, 5... or .1 , .2, .3, .4, .5 ...

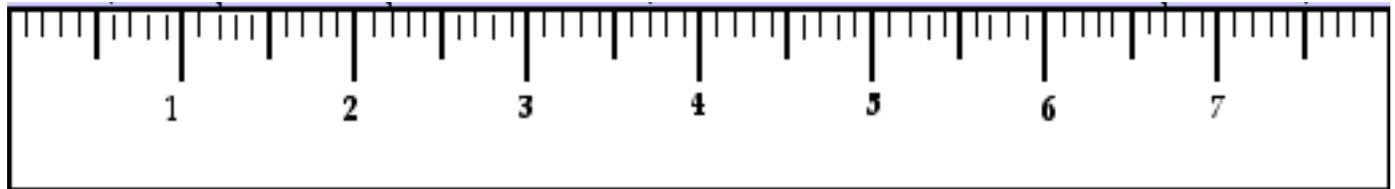
2's: 2, 4, 6, 8, 10... or .2, .4, .6, .8

3's: 3, 6, 9, 12...

5's: 5, 10, 15, 20... or .5, .1, .15, .2, .25

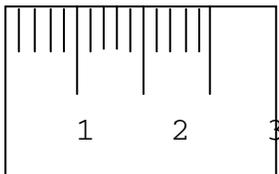
You will need to use these methods of counting in order to read a ruler. Sometimes a ruler will count by 1's, sometimes by 2's, and sometimes even by .5!

Let's take a look at this example:



If you can count 10 lines in between 1 and 2, you know you can count by .1. Try it - take your pencil and place it on the 1, try counting to the 2 by adding .1 every time!

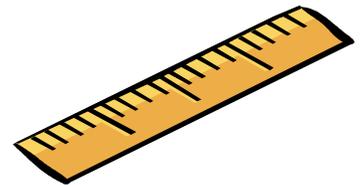
So it should look/sound like: 1, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2



Take a look at the ruler segment to the left. There are fewer lines between the numbers! What should you count by to get from 1cm to 2cm?

Try counting by .1 - does this work?

Try counting by .2 - This works!



So it should look/sound like: 1, 1.2, 1.4, 1.6, 1.8, 2

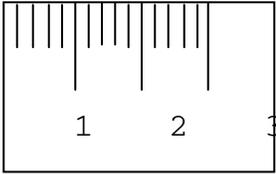
Here is a quick trick to try!

In order to figure out what numbers to count by use this formula -

1 divided by the number of lines between 1 and 2, including the line for 2!

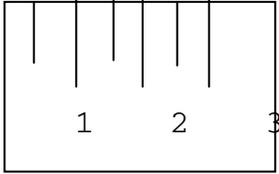
So using the ruler below, try the formula and see if you come up with .2!

Welcome to Measurement Madness!



$$1/5 = .2 \text{ (1 divided by 5 lines)}$$

So you should count each line as .2



Use the formula on this ruler!

$1/\text{number of lines (including the line for the \#2)}$

$$\text{Solution} = 1 \div 2 = .5$$

So you should count by .5's!

Try drawing a ruler that counts by .05! **Remember that a ruler counting by .1's has 10 lines between 1 and 2 (including the line for the number 2).** You will need more lines on this ruler because you are counting by a smaller amount - but how many lines?

Draw your ruler here! Make sure I can clearly count your lines!

