## Measuring Lengths in Inches

Length is most commonly referred to as the longest dimension of an object. For example, length of a pencil, length of a rectangles, length of a book, and so on.

Rulers are common instruments for measuring lengths. Most rulers do not bend and that makes them reliable for measuring segments.

A ruler can be thought of as a type of number lines. The ruler below measures in inches. Recall that the marks on a number line are called tick marks. The distance between two tick marks is called the interval of the ruler.


When we measure an object using a ruler, we line one end of the object against the zero mark on the ruler, and then pick the mark on the ruler which is closest to the other end of the object.

Of the following examples, only C is correct way to measure.
A.

B.

C.


## Example 1

The following pencil's length is 4 inches.


## Example 2

## How long is the object?



## Explanation

If we did not start from the zero when measuring, the rule of thumb is to calculate the difference between the marks of the object. In this case, two marks are 3 inches and 7 inches, respectively. So the length is $7-3=4$ inches.

