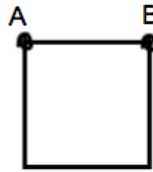


Measuring Lengths with a Ruler

Mr. Taylor wanted to hang some drywall in his house. He has about two sections left in his kitchen that he figures are about the size of a textbook. What measurements would he need?

Length - The distance _____ between two points.



Centimeter - One hundredth of a meter.

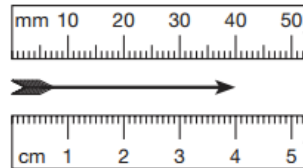
_____ cm = 1 m

Millimeter - One thousandth of a meter.

_____ mm = 1 m

_____ mm = 1 cm

How many mm and cm do you see?



_____ mm _____ cm

Example 1

The distance across a nickel is about 2 centimeters. Two centimeters is how many millimeters?

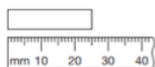
Going from cm to mm - Take the cm number and multiply it by _____.

Going from mm to cm - Take the cm number and _____ it by _____.

Measuring Continued

Example 2

What is the length of the rectangle below?

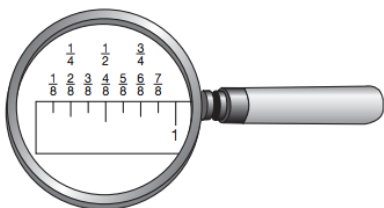


_____ mm _____ cm

We abbreviate *inch* or *inches* like this: *in*. Here we show an inch scale divided into eighths:



Below we show a magnified portion of an inch ruler. We see that $\frac{2}{8}$ of an inch equals $\frac{1}{4}$ of an inch, $\frac{4}{8}$ of an inch equals $\frac{1}{2}$ of an inch, and $\frac{6}{8}$ of an inch equals $\frac{3}{4}$ of an inch.



Example 3

How many inches long is this arrow?



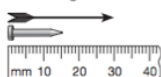
_____ in

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Letters A - Q

- a) _____ cm, _____ mm
- b) _____ cm, _____ mm
- c) _____ cm, _____ mm
- d) _____ cm e) _____ mm
- f) _____ mm g) _____

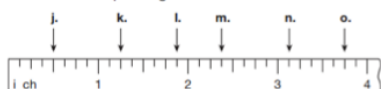
h. How many millimeters long is the nail?



h) _____ M) _____

i. How many centimeters long is the arrow?

Connect For problems j-o, name the mark on the ruler to which each arrow is pointing.



l) _____ N) _____

J) _____ O) _____

k) _____ P) _____

L) _____ Q) _____