

Metric Mania



Lesson 1: Length

T. Trimpe 2008 <http://sciencespot.net/>

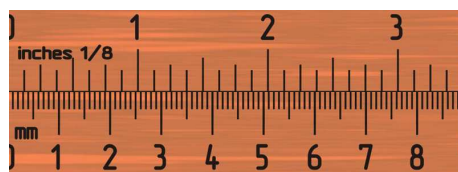
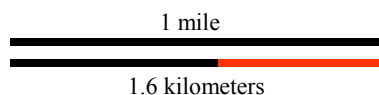
English vs. Metric Units

Which is longer?

A. 1 mile or 1 kilometer

B. 1 yard or 1 meter

C. 1 inch or 1 centimeter



1 inch = 2.54 centimeters



1 yard = 0.9444 meters

Left Image: <http://webapps.lsa.umich.edu/physics/demolab/controls/imagedemosm.aspx?picid=1167>
Right Image: <http://share.lancealan.com/N800%20ruler.jpg>

km m **Metric Units** cm mm

The basic unit of length in the metric system is the **meter** and is represented by a lowercase **m**.

Standard: The **distance** traveled by **light** in absolute vacuum in 1/299,792,458 of a second.

Metric Units

1 Kilometer (km) = 1000 meters

1 Meter = 100 Centimeters (cm)

1 Meter = 1000 Millimeters (mm)

Click the image to watch a short video about the meter.



Which is larger?

- A. 1 meter or 105 centimeters C. 12 centimeters or 102 millimeters
 B. 4 kilometers or 4400 meters D. 1200 millimeters or 1 meter

Measuring Length

How many millimeters are in 1 centimeter?

1 centimeter = 10 millimeters



What is the length of the line in centimeters? _____ cm

What is the length of the line in millimeters? _____ mm



What is the length of the line to the nearest centimeter? _____ cm

HINT: Round to the nearest centimeter – no decimals.

Ruler: <http://www.k12math.com/math-concepts/measurement/ruler-cm.jpg>