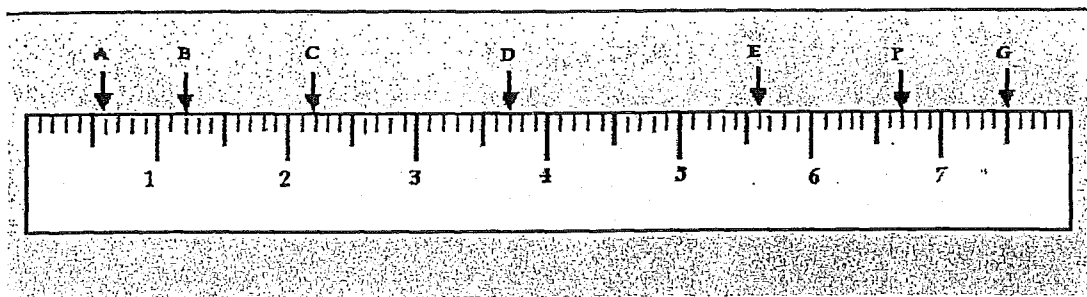


The beauty of the metric system is that it is based on the number 10.

- The diagram below shows you a section of a metric ruler.
- Each numbered line represents one centimeter.
- Each small mark after the numbered lines represents one tenth of a centimeter.
- The larger mark between numbered lines represents five tenths of a centimeter.
- This allows you to easily see the number of lines over the whole centimeter that an object measures.

In the metric system, we always use decimals, never fractions.



#### Instructions

1. Look at the diagram of part of a metric ruler. Above it are some arrows with letters.
2. Look at the letter, determine the measurement and
3. You *must* always include a unit like centimeter in your answers.

You may use abbreviations. Below are some abbreviations for common metric linear measures.

Millimeter	mm	Centimeter	cm	Decimeter	dm
Meter	m	Kilometre	km		

a. \_\_\_\_\_

d. \_\_\_\_\_

b. \_\_\_\_\_

e. \_\_\_\_\_

c. \_\_\_\_\_

f. \_\_\_\_\_

g. \_\_\_\_\_

1. List three things around your home that you could *sensibly* measure in millimeters (mm).

2. List three things around your home that you could *sensibly* measure in centimeters (cm).

3. List three things around your home that you could *sensibly* measure in decimeters (dm).

4. List five things around your home that you could measure in meters (m).

1 meter = 1,000 millimeters  
100 centimeters  
10 decimeters

milli = one thousandth (0.001) or  $1/1000$  of a meter

centi = one hundredth (0.01) or  $1/100$  of a meter

deci = one tenth (0.1) or  $1/10$  of a meter

Name \_\_\_\_\_

Date \_\_\_\_\_ Period \_\_\_\_\_

# Why was Cinderella thrown off the baseball team?



**Directions:** Solve each problem. Look for your answer in the decoder at the bottom of the page. Each time your answer appears, write the letter of the problem above it.

1.  $1\text{ cm} = \underline{\hspace{2cm}} \text{ mm}$  (O)

8.  $110\text{ mm} = \underline{\hspace{2cm}} \text{ cm}$  (E)

2.  $2\text{ cm} = \underline{\hspace{2cm}} \text{ mm}$  (R)

9.  $75\text{ cm} = \underline{\hspace{2cm}} \text{ mm}$  (A)

3.  $6\text{ cm} = \underline{\hspace{2cm}} \text{ mm}$  (B)

10.  $943\text{ cm} = \underline{\hspace{2cm}} \text{ mm}$  (H)

4.  $14\text{ cm} = \underline{\hspace{2cm}} \text{ mm}$  (M)

11.  $204060\text{ mm} = \underline{\hspace{2cm}} \text{ cm}$  (F)

5.  $10\text{ mm} = \underline{\hspace{2cm}} \text{ cm}$  (N)

12.  $20400\text{ mm} = \underline{\hspace{2cm}} \text{ cm}$  (L)

6.  $30\text{ mm} = \underline{\hspace{2cm}} \text{ cm}$  (W)

13.  $15\text{ mm} = \underline{\hspace{2cm}} \text{ cm}$  (Y)

7.  $90\text{ mm} = \underline{\hspace{2cm}} \text{ cm}$  (T)

14.  $3 \frac{1}{2}\text{ cm} = \underline{\hspace{2cm}} \text{ mm}$  (S)

35    9430    11    20    750    1    750    3    750    1 ½

20406    20    10    140    9    9430    11    60    750    2040    2040