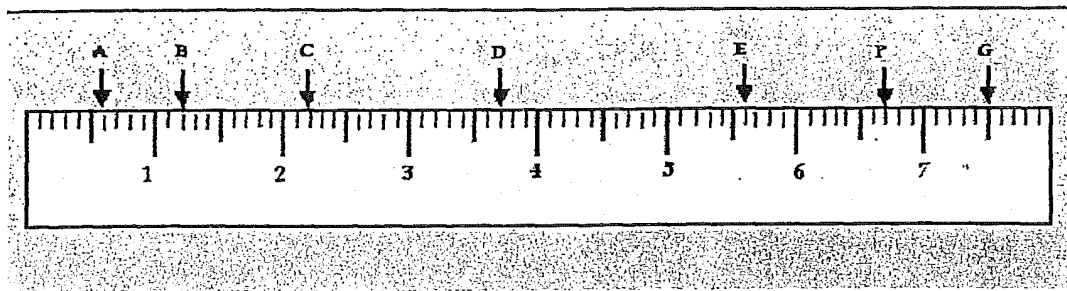


The beauty of the metric system is that it is based on the number 10.

- 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. 0.6 cm or 6 mm _____

b. 1.2 cm or 12 mm _____

c. 2.2 cm or 22 mm _____

d. 3.7 cm or 37 mm _____

e. 5.6 cm or 56 mm _____

f. 6.7 cm or 67 mm _____

g. 7.5 cm or 75 mm _____

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

Thickness of a pencil, size of vitamin pill, and a chocolate chip.

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

Length of a pencil, height of vitamin container, and length of chocolate chip bag.

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

Height of my television, width of a dining room chair, and diameter of a large planter

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

Width of a bay window, Height of my entry doorway, Length of my house, length of my driveway, height of my deck.

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. 1cm = 10 mm (O)

2. 2cm = 20 mm (R)

3. 6cm = 60 mm (B)

4. 14cm = 140 mm (M)

5. 10mm = 1 cm (N)

6. 30mm = 3 cm (W)

7. 90mm = 9 cm (T)

8. 110mm = 11 cm (E)

9. 75cm = 750 mm (A)

10. 943cm = 9430 mm (H)

11. 204060mm = 20406 cm (F)

12. 20400mm = 2040 cm (L)

13. 15mm = 1.5 cm (Y)

14. 3 1/2 cm = 35 mm (S)

S	H	E	R	A	N	A	W	A	Y	
35	9430	11	20	750	1	750	3	750	1 1/2	
F	R	O	M	T	H	E	B	A	L	L
20406	20	10	140	9	9430	11	60	750	2040	2040