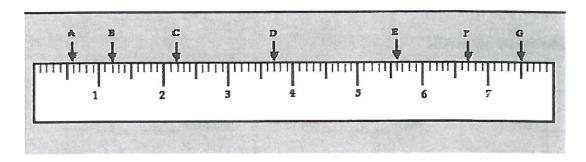
Name			Da	atePer
	Unit	s of Leng	jth	
1. Name the units in	order of their size with	the smalle	st first.	
2. Write the abbrevia	tion for:			
meter	centimeter	millir	neter	_ decimeter
3. Write the missing	numerals.			
1m=dm	2m=	mm	1000mm)=m
1m=cm	4m=	cm	200dm=	m
1m=mm	5m=	dm	700cm=_	m
1dm=mm	40dm=	mm	130cm=_	m
1dm=cm	100dm=	m	500mm	dm
10dm=m	20dm=	cm	30m=	dm
1cm=mm	500cm=	m	4m=	cm
10cm=dm	40cm≈	mm	120mm=_	cm
100cm=m	150cm=	dm	27dm=	cm
4. Measure each line s	egment to the nearest	cm.		
ā	· · · · · · · · · · · · · · · · · · ·	Ь		-
s		d		
).=				
o.=	d.=			

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 m	Centimeter Kilometre	cm	Decimeter	
ą			d		
Ь			e		
C			f		

~		.1	v 1
L	eng	th	Lab
	0		

Name _____

1. What does each unit represent?

(a) mm =	
(c) cm =	STOCK OF THE CONTROL OF T

2. How much does each one equal?

(a)
$$1 \text{ m} = \underline{\hspace{1cm}} \text{cm}$$

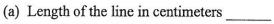
(b)
$$1 \text{ cm} = \underline{\qquad} \text{mn}$$

(b)
$$1 \text{ cm} = \underline{\hspace{1cm}} \text{mm}$$
 (c) $1 \text{ km} = \underline{\hspace{1cm}} \text{m}$

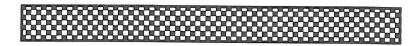
3. Which measurement is the largest? Circle your answer for each pair.

- (a) 14 mm or 1 cm
- (d) 145 m or 145 km
- (b) 334 m or 1 km
- (e) 3.4 cm or 30 mm
- (c) 1 m or 990 cm
- (f) 10 km or 1000 cm

4. Use a metric ruler or meter stick to find each measurement.

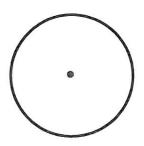


(b) Length of the line to the <u>nearest</u> centimeter



(c) Height of the rectangle to the nearest millimeter _____

(d) Width of the rectangle to the nearest millimeter _____

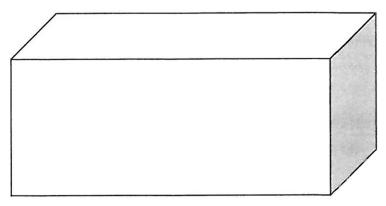


(e) Radius of the circle to the nearest millimeter _____

(f) Diameter of the circle in centimeters

(g) Diameter of the circle to the <u>nearest</u> centimeter

HINT: If it says "nearest", you need to round your answer so you don't have a decimal point. If not, you should have one decimal point in your answer.



(h) Volume of the box in cubic centimeters
x=
(Measure to the nearest centimeter before multiplying.)
5. Find the length of an unsharpened pencil (including eraser) in millimeters.
6. What is your height in centimeters? What is your height in meters?
7. Find the distance between the two index cards in the hallway in meters.
 8. Use your shoe and a metric ruler to complete this section. Keep your shoes on for this one! (a) What is the length of your shoe to the nearest centimeter? (b) How many shoes would it take (heel to toe) to make 1 meter? (c) How many shoes would it take to make 1 kilometer?
9. Use ten pennies and a metric ruler to complete this section. (a) How tall is a stack of ten pennies in centimeters? (b) How tall would a stack of 100 pennies be in centimeters? (c) How tall would a stack of 1000 pennies be in centimeters?
10. Circle the BEST metric unit for each. (a) The length of an eyelash mm cm m km (b) The height of a flagpole mm cm m km (c) The length of a strand of spaghetti mm cm m km (d) The distance from Chicago, IL, to Peoria, IL. mm cm m km