Metric Conversion Worksheet 1

Name	
D. 4.	TT .
Date	Hr

Objectives:

1. Students will practice converting within the metric system.

Directions:

1. Convert the following measurements. You may use a number line but no calculator.

M	Ieasurement	Convert to Metric Units			
1	23.6 cm	m	mm	dm	
2	456 mm	cm	m	hm	
3	6.89 km	hm	m	mm	
4	77.8 Dm	m	hm	km	
5	0.97 m	mm	km	dm	
6	89.078 ml	1	cl	dl	
7	8.55 1	kl	cl	ml	
8	19003.9 ul	ml	hl	cl	
9	369118 ml	Dl	1	kl	
10	0.779 kl	1	ml	hl	
11	2.678 kg	g	cg	Dg	
12	963.8 g	kg	hg	ug	
13	46666.56 mg	cg	g	dg	
14	952.45 Dg	hg	kg	g	
15	3456.0 g	hg	cg	kg	

Monaco Education Service

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Name		

LENGTH:

- 1. What is the basic unit for length?
- 2. Circle the best unit for measuring each distance:
 - a. Thickness of an eyelash:

mm

cm \mathbf{m}

km

- b. Length of a pencil: cm
- \mathbf{m}

- 3. Use a meter stick or metric ruler to find each measurement.
 - a. Width of this page _____ mm or ____ cm

- b. Length of an unsharpened pencil cm
- 4. Convert the following measurements:
 - a. 34 mm = ____ cm

b. 3 km = ____ m

c. $234 \text{ cm} = ___ \text{m}$

d. $35 \text{ m} = \underline{\text{mm}}$

MASS:

- 5. What is the basic unit for mass?
- 6. Circle the best unit for measuring each mass:
 - a. Amount of spices in a batch of cookies: mg
 - b. Your mass: mg g
- kg
- c. Mass of 10 pennies: mg
- kg
- 7. Use a triple-beam balance to find each measurement.
 - a. Mass of an ink pen _____ g
- b. Mass of a can of soda _____ g

- 8. Convert the following measurements:
 - a. 16 mg = _____ g

- b. 4.7 kg = _____ g
- c. $12,345 g = ___ kg$
- d. 2 g = ____ mg

kg

TEMPERATURE:

- 15. What is the basic unit for temperature?
- 16. What are the freezing and boiling points for water on this scale? _____
- 17. Circle the best choice:
 - a. Temperature on a hot summer's day:
- 00 350
 - 90 o

- b. Room temperature: 20 °
 - 0 o
- 20 °
- 18. Convert the following measurements.
 - a. 900 F = 0 C

b. $45^{\circ} F = {}^{\circ} C$

VOLUME: 19. What is the basic unit for volume?	
Circle the best unit for measuring each volume: a. Amount of soda in 1 can: mL L b. Water in a bathtub: mL L	
21. Determine the volume for each object.a. Use L x W x H to find the volume of a chb. Use water displacement to find the volume	
22. Convert the following measurements: a. 160 mL = L c. 456 cL = mL	b. 23 kL = L c. 120 mL = cm ³
TIME: 23. What is the basic unit for measuring time?	
24. How many seconds are in: a. 1 minute? b. 6 he	ours? c. 2 days?
DENSITY: 28. Would the objects with the following densities fl water?	oat, sink, or remain suspended in tap
a. 0.85 g/mL	b. 1.0 g/mL
c. 1.4 g/mL	d. 0.92 g/mL

T. Trimpe 2000

Name:	
Date:	
Hour:	

Objective: to practice use of brain on determining the most appropriate unit for a certain measurement.

Direction: Write in the symbol of the given unit that would be <u>most appropriate</u> to measure each item? If the teacher allows you make work with a partner or your table.

Given units:

cm,	m,	km,	mg,	g,	kg,	mL,	L,	kL
	L		1	1	I			<u>l</u>
1. (distance	to the C.	JH gym	from her	e			
2. :	your hei	ight						
3. (distance	to Moor	e High S	School				
4. 1	height o	of school	auditoriu	ım				
5. \	width of	f your tab	ole					
6. '	width of	f a large (Oklahom	na Lake				
7. •	width of	f the class	sroom					
8. 8	amount	of salt or	your fri	ies				
9. a	amount	of medic	ine in a j	pill				
10.	weight o	of 2 liter 1	bottle of	Coke				
11.	weight o	of a sack	of potato	oes				
12.	amount	of fat in	a hambu	rger				
13.	weight o	of one mo	outhful o	f fries				
14.	amount	of water	you drin	k in a da	у			
15.9	size of a	a swimmi	ng pool					
16.	amount	of water	used in e	each flus	h			
17.	amount	of liquid	a straw l	holds				
18.	amount	of medic	ine in in	jections				
19.	volume	of your h	ead	-				
		of your he				_		

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Metric System Challenge	Name
1. Instrument used to find mass	· - ⁻
2. Metric unit for length 23	17
3. Amount of space an object takes up $-\frac{20}{1}$	6
4. $9.8 \text{ m/s}^2 =\frac{10}{10}$	
5. Metric unit for mass	
6. Instrument used to measure volume	
7. Mass ÷ volume	
8. 1 meter = $100_{\frac{1}{4}}$	
9. Metric unit for weight 5	
10. Metric unit for liquid volume	
11. Amount of matter in an object	
12. Measure of the force of gravity acting of	on an object
13. Metric unit for temperature $\frac{1}{11}$	
14. 1 liter = 1,000	
15. The name of the "bubble"	-
16. 1000 grams = 1	
17. Instrument used to measure length _	
18. 1 milliliter = 1	
19. Width, height, thickness, or distance _	
20. Formula for calculating volume _ x _	3
Why were the teacher	L

 $\frac{1}{1} \ \frac{2}{2} \ \frac{3}{3} \quad \frac{4}{5} \ \frac{5}{6} \ \frac{7}{7} \ \frac{8}{8} \ \frac{9}{10} \ \frac{11}{11} \ \frac{12}{12} \ \frac{13}{14} \ \frac{1}{15} \ \frac{1}{16} \ \frac{1}{17} \quad \frac{18}{18} \ \frac{19}{19} \ \frac{20}{20} \quad \frac{21}{21} \ \frac{22}{23} \ \frac{24}{25} \ \frac{25}{26} \ \frac{1}{25} \ \frac{1}{2$