

Name:

Date:

# Customary Units of Weight

1. Fill in the tables.

<b>Pounds</b>	1	2	2 1/2	3	3 1/2	4		5 1/2	10	
<b>Ounces</b>							80			320

<b>Tons</b>	1	2	3					20	30
<b>Pounds</b>				10,000	14,000	20,000			

2. Convert.

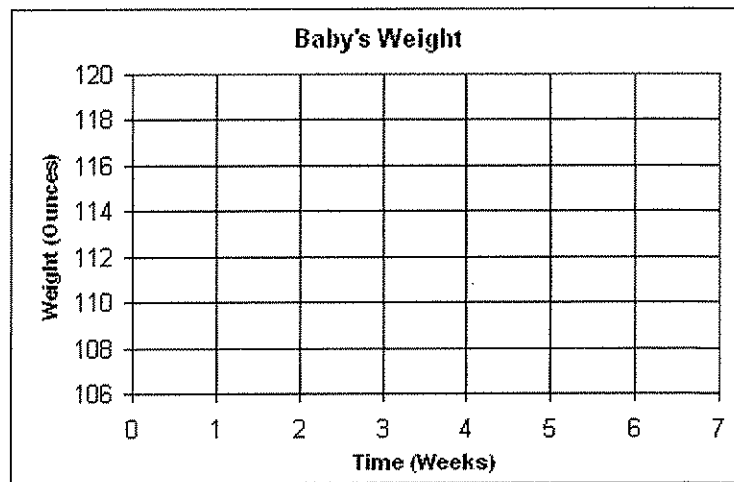
<p>a. 1 lb 1 oz = _____ oz</p> <p>2 lb 4 oz = _____ oz</p> <p>5 lb 11 oz = _____ oz</p>	<p>b. 3 T = _____ lb</p> <p>_____ T = 12,000 lb</p> <p>6 lb = _____ oz</p>	<p>c. _____ lb _____ oz = 50 oz</p> <p>_____ lb _____ oz = 40 oz</p> <p>30 oz = _____ lb _____ oz</p>
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3. Circle the heavier amount.

a. 30 oz    1 lb 3 oz	b. 3 T    4000 lb	c. 100 oz    10 lb
d. 17 oz    1 lb 1oz.	e. 64 oz    3 lb 6 oz	f. 1500 lb    1 1/2 T

4. Make a line graph of baby's weight.

Week	Weight
0	6 lb 14 oz
1	6 lb 12 oz
2	6 lb 14 oz
3	7 lb
4	7 lb 2 oz
5	7 lb 4 oz
6	7lb 6oz
7	7lb 7oz



5. Solve for x.

a. $x + 15 \text{ oz} = 2 \text{ lb}$	b. $x + x = 6 \text{ lb}$	c. $x + x + 10 \text{ oz} = 1 \text{ lb}$
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Name:

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# Metric Units of Weight

1. Fill in the table.

kilograms	1	2	2 1/2	3	3 1/2	4			10	
grams							7,000	9,500		20,000

2. Convert.

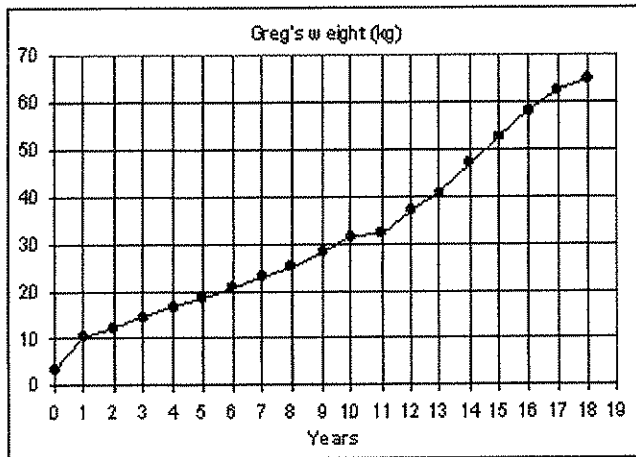
a. 1 kg 100 g = _____ g	b. 2,500 g = ____ kg _____ g	c. 6 kg = _____ g
5 kg 400 g = _____ g	10,200 g = ____ kg _____ g	8 1/2 kg = _____ g

3. a. Fill in the table how much weight Greg gained during each year.

b. When did he grow the fastest?

c. How can you see the 'fast' growth periods on the chart?

AGE (yrs)	WEIGHT (kg)	Weight gain from previous year
0	3 kg 300 g	(none)
1	10 kg 200 g	6 kg 900 g
2	12 kg 300g	
3	14 kg 600 g	
4	16 kg 700 g	
5	18 kg 700 g	
6	20 kg 700 g	
7	22 kg 900 g	
8	25 kg 300 g	
9	28 kg 100 g	
10	31 kg 400 g	
11	32 kg 200 g	
12	37 kg	
13	40 kg 900 g	
14	47 kg	
15	52 kg 600 g	
16	58 kg	
17	62 kg 700 g	
18	65 kg	



4. Solve for x.

a. $x + 600 \text{ g} = 5 \text{ kg}$	b. $1,200 \text{ g} + x = 10 \text{ kg}$	c. $500 \text{ g} + x + x = 1 \text{ kg}$
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Name: \_\_\_\_\_

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# Measuring Mass

<p><b>Metric units of mass</b></p> <p>_____ → milligram (centigram)</p> <p>_____ → (decigram)</p> <p>_____ → gram (decagram)</p> <p>_____ → (hectogram)</p> <p>_____ → kilogram</p>	<p><b>Customary units of mass</b></p> <p>_____ → 16 ounce</p> <p>_____ → (short) ton</p>	<p><b>1. How many...</b></p> <p>a. milligrams in a 1/2 gram?</p> <p>b. grams in 5 kilograms?</p> <p>c. ounces in 5 pounds?</p> <p>d. pounds in 3 tons?</p> <p>e. ounces in a ton?</p>
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2. Weigh water on a scale (in a container). Remember to calibrate the scales with the empty container.

volume	100 mL	200 mL	250 mL	500 mL	1 L
weight (g)					
weight in oz					

3. Write < or > or = between the measurements. The above table can help, too!

- a. 35 oz  2 lb      b. 6 oz  1/2 lb      c. 1/2 ton  200 lb      d. 4 lb 5 oz  77 oz
- e. 500 mg  1/2 g      f. 400 g  1/2 kg      g. 2 kg  5,000 g      h. 2 kg  2 lb

4. Which are reasonable measurements?

<p>a. 7-year old boy</p> <p>50 kg   77 kg   25 kg</p>	<p>b. a heavy suitcase</p> <p>800 kg   11 lb   70 lb</p>	<p>c. 1 egg</p> <p>640 g   64 g   17 oz</p>
<p>d. a pocketbook</p> <p>900 g   3 oz   90 g</p>	<p>e. adult man</p> <p>80 kg   160 kg   200 kg</p>	<p>f. washer</p> <p>50 lb   150 kg   100 lb</p>

5. Fill in a suitable unit of mass.

- a. A 5-gallon bucket full of water weighs 40 \_\_\_\_\_ .      c. An apple weighs 200 \_\_\_\_\_ .
- b. A heavy table weighs 70 \_\_\_\_\_ .      d. The letter weighed 3 \_\_\_\_\_ .

6. Convert.

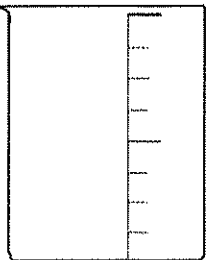
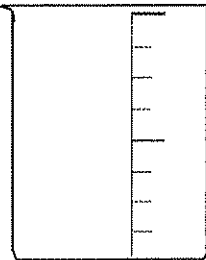
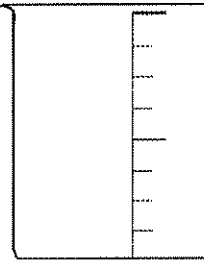
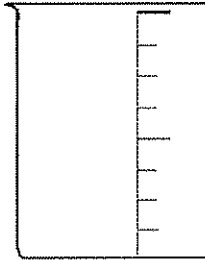
- a. 78 oz = \_\_\_\_\_ lb \_\_\_\_\_ oz      b. 4 lb 9 oz = \_\_\_\_\_ oz      c. 5 1/2 kg = \_\_\_\_\_ g
- 190 oz = \_\_\_\_\_ lb \_\_\_\_\_ oz      28 lb 4 oz = \_\_\_\_\_ oz      500 mg = \_\_\_\_\_ g
- 42 oz = \_\_\_\_\_ lb \_\_\_\_\_ oz      2 1/2 tons = \_\_\_\_\_ lb      7 g = \_\_\_\_\_ mg

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Customary Units of Capacity

1. The measuring cup holds 2 cups when full. Color the part that is given.

 <p>a. <math>1 \frac{1}{2}</math> cups</p>	 <p>b. <math>\frac{3}{4}</math> cups</p>	 <p>c. <math>\frac{1}{4}</math> cups</p>	 <p>d. <math>1 \frac{1}{4}</math> cups</p>
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2. Fill in the tables.

<b>Quarts</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>Pints</b>								
<b>Cups</b>								

<b>Gallons</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>Quarts</b>								
<b>Cups</b>								

3. Convert.

a. $2 \text{ c} = \underline{\hspace{1cm}} \text{ pt}$ $4 \text{ c} = \underline{\hspace{1cm}} \text{ qt}$	b. $\underline{\hspace{1cm}} \text{ c} = 2 \text{ pt}$ $\underline{\hspace{1cm}} \text{ c} = 3 \text{ qt}$	c. $12 \text{ c} = \underline{\hspace{1cm}} \text{ qt}$ $4 \text{ pt} = \underline{\hspace{1cm}} \text{ qt}$	d. $10 \text{ gal} = \underline{\hspace{1cm}} \text{ qt}$ $\underline{\hspace{1cm}} \text{ c} = 5 \text{ gal}$
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4. More, less, or the same amount? Write  $>$ ,  $<$ , or  $=$ .

a. A spoonful <input type="checkbox"/> a cup.	d. A quart of juice <input type="checkbox"/> fourth of a gallon.
b. A glass of milk <input type="checkbox"/> a pint.	e. Three cups of flour <input type="checkbox"/> a quart.
c. A bucket of water <input type="checkbox"/> 2 quarts.	f. $1 \frac{1}{2}$ cups of tea <input type="checkbox"/> a pint.

5. Solve for the missing quantity.

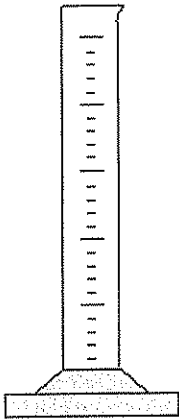
a. $\underline{\hspace{1cm}} + 1 \text{ c} = 1 \text{ qt}$	b. $3 \text{ c} + \underline{\hspace{1cm}} = 1 \text{ gal}$	c. $1 \frac{1}{2} \text{ c} + \underline{\hspace{1cm}} = 1 \text{ qt}$	d. $3 \text{ pt} + \underline{\hspace{1cm}} = 2 \text{ gal}$
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Name: \_\_\_\_\_

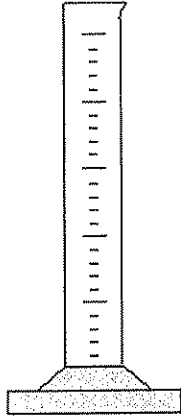
Date: \_\_\_\_\_

# Metric Units of Capacity

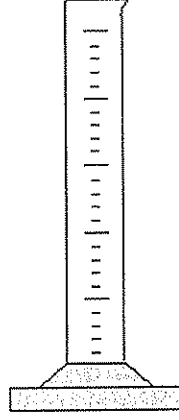
1. The measuring cup can hold 500 ml when full. Draw to fill it.



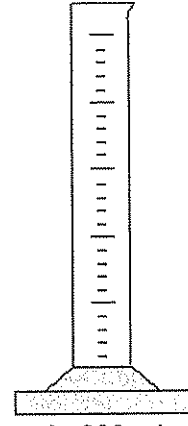
a. 300 ml



b. 120 ml



c. 440 ml



d. 280 ml

2. Fill in the table.

L	1	2		5	10		15	30
mL			3,000			12,000		

3. Convert.

a.  $9 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$       b.  $\underline{\hspace{2cm}} \text{ L} = 12,000 \text{ mL}$       c.  $20,000 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$       d.  $15 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$

4. Underline the correct amount.

- a. An eye dropper can hold (5 or 500) milliliters.      d. A quart of juice is about (1 or 3) liters.  
 b. Three cups of flour is about (75 or 750) mL.      e. A glass of milk is about (20 or 200) mL.  
 c. A bucket of water is about (10 or 100) liters.      f. A car tank holds (80 or 800) L of gas.

5. Solve the problems. Solve for x.

a. Jeanine drank 250 ml of a 1-liter jug of juice. How much is left?	b. Mark filled four 200-ml glasses out of a 2-liter bottle of juice. How much is left now?
c. $x + 400 \text{ ml} = 1 \text{ L}$	d. $x + x + 600 \text{ ml} = 2 \text{ L}$

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# Measuring Volume

<u>Metric units of volume</u>	<u>Customary units of volume</u>	1. How many...
10  _____ centiliter —  _____ deciliter 10  _____ (decaliter) 1000  _____ (hectoliter) kiloliter	8  fluid ounce —  _____ 2  pint —  _____ —  gallon	milliliters in a liter? liters in a kiloliter? milliliters in a kiloliter? fluid ounces in a pint? pints in a gallon?

2. Measure water to find out these. Do not use values from a math table.

volume	2 fl oz	4 fl oz	1 cup	1 pint	3 cups	1 quart
milliliters						

3. Write < or > or = between the measurements. The above tables can help, too!

- a. 17 oz  1 cup   
 b. 2 qt   $\frac{3}{4}$  gal   
 c.  $\frac{1}{2}$  qt  2 cups   
 d. 6 fl oz  1 cup  
 e. 100 ml  1 cup   
 f. 200 ml  2 fl oz   
 g. 1 L  1 pint   
 h. 2 L  1 gal

4. Which are reasonable measurements?

a. juice pitcher	b. cup of coffee	c. laundry sink
200 mL    2 L    2 cups	1 pint    6 fl oz    100 mL	160 mL    16 L    4 qt

5. Fill in a suitable unit of volume.

- a. The bucket can contain 3 \_\_\_\_\_ of water.                     
 c. Mom used 80 \_\_\_\_\_ of water for shower.  
 b. The volume of the ketchup bottle is 450 \_\_\_\_\_.                     
 d. Three teaspoonfuls is about 15 \_\_\_\_\_.

6. Convert.

- a. 34 oz = \_\_\_\_\_ cups \_\_\_\_\_ fl oz                     
 b. 12 L = \_\_\_\_\_ mL                     
 c. 3 cups = \_\_\_\_\_ qt  
    7 gal = \_\_\_\_\_ qt                     
    5 dL = \_\_\_\_\_ L                     
    65 oz = \_\_\_\_\_ qt \_\_\_\_\_ fl oz  
 d. 4 pints = \_\_\_\_\_ gal                     
 e. 600 mL = \_\_\_\_\_ dL                     
 f. 5 pints = \_\_\_\_\_ qt  
    3 gal = \_\_\_\_\_ fl oz                     
    4000 mL = \_\_\_\_\_ L                     
    6 cups = \_\_\_\_\_ qt