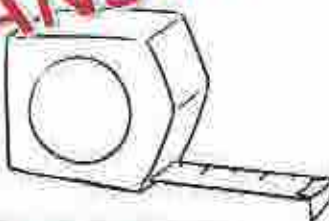
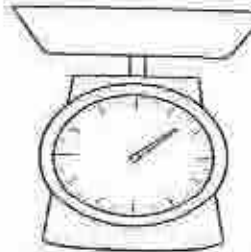
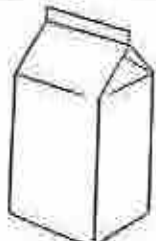


ANSWER KEY Customary Measurement PowerPoint Handout

		
<p><u>Length</u> is the <u>distance</u> from one point to another.</p>	<p><u>Weight</u> indicates how <u>heavy</u> something is.</p>	<p><u>Capacity</u> refers to the amount that a <u>container</u> can <u>hold</u>.</p>

You want to find out...	What are you measuring?
... how tall you are.	length
... how heavy you are.	mass
... how much liquid is in a test tube.	capacity
... how long each nail is.	length
... how far it is to get across the monkey bars.	length
... how much sand the sandbox can hold.	capacity
... how much milk your cow produced this morning.	capacity
... how heavy your cow is.	mass

A unit is the standard that something is measured by.

	Metric System	U.S. Customary Unit of Measure
Length	millimeter, centimeter, meter, & kilometer	inch, foot, yard, mile
Mass/ Weight	grams & kilograms	ounces, pounds, & tons
Capacity	milliliters & liters	cups, pints, quarts, & gallons

Customary Length

ANSWER KEY

12 inches (in.)	1 foot (ft.)
3 feet (ft.)	1 yard (yd.)
1760 yards (yd.)	1 mile (mi.)

in. ft.

← multiply

yd. mi.

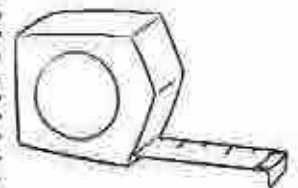
← divide →

1. How many inches are in 3 feet?
 multiply or divide 36 inches
2. How many feet are in 60 inches?
 multiply or divide 5 feet
3. How many yards are in 27 feet?
 multiply or divide 9 yards
4. How many yards are in 2 miles?
 multiply or divide 3,520 yards
5. How many feet are in 10 yards?
 multiply or divide 30 feet
6. How many inches are in 10 yards?
 multiply or divide 360 inches

Conversion Tables

inches	feet
24	2
72	6
108	9

feet	yards
6	2
36	12
45	15



Which customary unit would be best to use to measure...	Your answer	Which is the best estimate?
... the length of a stapler?	inches	7 inches
... the length of a backyard swimming pool?	yards	12 yards
... the distance from Texas to Iowa?	miles	700 miles
... the length of a fireplace?	feet	5 feet

Comparing Customary Lengths: Write $>$, $<$, or $=$.

1 yd. $<$ 4 ft.	5 yd. $<$ 50 ft.	7 ft. $>$ 2 yd.
15 in. $>$ 1 ft.	1,500 yd. $<$ 1 mi.	1,760 yd. $=$ 1 mi.
48 in. $=$ 4 ft.	140 in. $<$ 12 ft.	24 in. $<$ 1 yd.

Ordering Customary Lengths: Order from least to greatest.

2 ft.	16 in.	28 in.	5 ft.	35 in.
16 in.	2 ft.	28 in.	35 in.	3 ft. 4 yd.

ANSWER KEY

Ordering Customary Lengths: Order from greatest to least.

44 in.	2 yd.	7 ft.	5 ft.	62 in.	1 yd.
7 ft.	2 yd.	44 in.	62 in.	5 ft.	1 yd.

Ordering Customary Lengths: Which of the following lists is ordered from ...

<p>...greatest to least?</p> <p>A. 1 mi., 2000 ft., 700 yd., 48 in.</p> <p><input checked="" type="radio"/> B. 1 mi., 700 yd., 2000 ft., 48 in.</p> <p>C. 2000 ft., 700 yd., 48 in., 1 mi.</p> <p>D. 2000 ft., 1 mi., 700 yd., 48 in.</p>	<p>...least to greatest?</p> <p>A. 24 in., 48 in., 3 ft., 2 yd.</p> <p>B. 2 yd., 3 ft., 24 in., 48 in.</p> <p><input checked="" type="radio"/> C. 24 in., 3 ft., 48 in., 2 yd.</p> <p>D. 24 in., 48 in., 2 yd., 3 ft.</p>
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Ordering Customary Lengths: Which of the following lists is ordered from...

<p>...greatest to least?</p> <p>A. 1 yd., 2 ft., 30 in., 3 in.</p> <p>B. 2 mi., 2 ft., 2 yd., 2 in.</p> <p><input checked="" type="radio"/> C. 4 yd., 9 ft., 2 yd., 5 ft.</p> <p>D. 1 mi., 4000 yd., 1000 yd., 50 ft.</p>	<p>...least to greatest?</p> <p>A. 13 in., 1 ft., 5 ft., 50 ft.</p> <p>B. 65 in., 3 yd., 8 ft., 150 yd.</p> <p><input checked="" type="radio"/> C. 1 yd., 37 in., 4 ft., 60 in.</p> <p>D. 1 ft., 48 in., 2 yd., 4 ft.</p>
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Customary Length: Word Problems

<p>Ellen was measured at the doctor's office. The nurse said she measured 62 inches tall. About how tall is she in feet?</p> <p><input checked="" type="radio"/> A. 5 ft 2 in.</p> <p>B. 6 ft 1 in.</p> <p>C. 4 ft. 13 in.</p> <p>D. 5 feet exactly</p>	<p>How many inches is a 5-foot slide?</p> <p>A. 50 in.</p> <p>B. 15 in.</p> <p>C. 36 in.</p> <p><input checked="" type="radio"/> D. 60 in.</p>
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<p>A football goal post extends to 40 feet above the ground. About how many yards is that?</p> <p>A. 10 yd.</p> <p>B. 12 yd.</p> <p><input checked="" type="radio"/> C. 13 yd.</p> <p>D. 15 yd.</p>

Customary Weight

ANSWER KEY

16 ounces (oz.)	1 pound (lb.)
2000 pounds (lbs.)	1 ton

oz lb ton

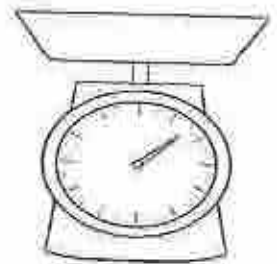
← multiply divide →

1. How many ounces are in 5 pounds?
 multiply or divide 80 ounces
2. How many pounds are in 2 tons?
 multiply or divide 4000 pounds
3. How many pounds are in 48 ounces?
 multiply or divide 3 pounds
4. How many tons are in 12,000 pounds?
 multiply or divide 6 tons
5. How many ounces are in 10 pounds?
 multiply or divide 160 ounces

Conversion Tables

ounces	pounds
16	1
112	7
240	15

pounds	tons
2,000	1
16,000	8
52,000	26



Which customary unit would be best to use to measure the weight of ...	Your answer	Which is the best estimate?
... an apple?	ounces	4 ounces
... a bag of apples?	pounds	3 pounds
... a basketball?	ounces	20 ounces
... a ten-year-old child?	pounds	70 pounds
... an elephant	tons	3 tons

Comparing Customary Weight: Write >, <, or =.

15 oz. < 1 lb.	110 oz. > 6 lbs.	48 oz. = 3 lbs.	2 lbs. < 33 oz.
50 oz. < 4 lbs.	5 tons < 12,000 lbs.	11 tons > 20,000 lbs.	

Ordering Customary Weight: Order from least to greatest.

5 tons	5 lbs.	50 oz.	20 oz.	1 lb.	10 oz.
50 oz.	5 lbs.	5 tons	10 oz.	1 lb.	20 oz.

Ordering Customary Weight: Order from greatest to least.

2 lbs	52 oz	4 lbs.	5,000 lbs	2,500 lbs:	2 tons
4 lbs	52 oz	2 lbs.	5,000 lbs	2 tons	2,500 lbs

Ordering Customary Weight: Which of the following lists is ordered from...

<p>ANSWER KEY</p> <p>greatest to least?</p> <p>A. 1 lb., 2 lbs., 18 oz., 49 oz.</p> <p>B. 2 lbs., 49 oz., 18 oz., 1 lb.</p> <p><input checked="" type="radio"/> C. 49 oz., 2 lbs., 18 oz., 1 lb.</p> <p>D. 2 lbs., 49 oz., 1 lb., 18 oz.</p>	<p>...least to greatest?</p> <p>A. 2 oz., 2 lbs., 26 oz., 35 oz.</p> <p>B. 2 oz., 26 oz., 35 oz., 2 lbs.</p> <p><input checked="" type="radio"/> C. 2 oz., 26 oz., 2 lbs., 35 oz.</p> <p>D. 2 lbs., 2 oz., 26 oz., 35 oz.</p>
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Ordering Customary Weight: Which of the following lists is ordered from greatest to least?

<p>A. 33 oz., 2 lbs., 1 lb., 18 oz.</p> <p>B. 2 lbs., 30 oz., 15 oz., 1 lb.</p> <p>C. 1 ton, 3000 lbs., 10 lbs., 1 oz.</p> <p><input checked="" type="radio"/> D. 2 lbs., 29 oz., 18 oz., 1 lb.</p>	<p>A. 1 ton, 50 lbs., 5 lbs., 85 oz.</p> <p>B. 2 tons, 3 lbs., 52 oz., 65 oz.</p> <p><input checked="" type="radio"/> C. 3 lbs., 24 oz., 1 lb., 15 oz.</p> <p>D. 1 ton, 77 oz., 5 lbs., 35 oz.</p>
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Customary Weight: Word Problems

<p>Sally buys 2 lbs. of popcorn at the movie theater. She eats 24 oz., and then decides to save the rest for later. How much popcorn does Sally have left?</p> <p>A. 1 lb.</p> <p><input checked="" type="radio"/> B. 8 oz.</p> <p>C. 9 oz.</p> <p>D. 10 oz.</p>	<p>A semi truck can haul a load up to 80,000 lbs. How many tons is that?</p> <p><input checked="" type="radio"/> A. 40 tons</p> <p>B. 160,000 tons</p> <p>C. 400 tons</p> <p>D. 16 tons</p>
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<p>Nathan is buying chips to share with his teammates. He wants to buy the bag with the most chips. Which bag should he buy?</p> <p>Bag A: 1 lb., 8 oz.</p> <p>Bag B: 13 oz.</p> <p><input checked="" type="radio"/> Bag C: 26 oz.</p>
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ANSWER KEY

1 cup (c.)	1 pint (pt.)
2 pints (pt.)	1 quart (qt.)
4 quarts (qt.)	1 gallon (gal.)

← multiply divide →

c. pt. qt. gal.

- How many cups are in 2 pints?
multiply or divide 4 cups
- How many quarts are in 8 pints?
multiply or divide 4 quarts
- How many pints are in 16 cups?
multiply or divide 8 pints
- How many quarts are in 5 gallons?
multiply or divide 20 quarts
- How many gallons are in 12 quarts?
multiply or divide 3 gallons
- How many pints are in 12 quarts?
multiply or divide 24 pints

Conversion Tables

pints	quarts	cups	pints	quarts	gallons	quarts	pints
2	1	4	2	4	1	2	4
8	4	10	5	12	3	3	6
12	6	20	10	20	5	8	16

Which customary unit would be best to use to measure the capacity of...	Your answer	Which is the best estimate?
... the juice served at a graduation party with 100 people?	gallons	10 gallons
... the amount of milk served with each school lunch?	cup	1 cup
... a child's plastic swimming pool?	gallons	168 gallons

Comparing Customary Capacity: Write >, <, or =.

5 c. > 2 pt.	4 pt. > 1 qt.	8 qt. = 2 gal.
3 qt. = 6 pt.	3 c. < 2 pt.	6 c. < 4 pt.
3 qt. < 1 gal.	6 c. > 1 qt.	18 c. < 5 qt.

Ordering Customary Capacity: Order from least to greatest.

7 c	1 qt	3 pt	2 gal	5 qt	4 pt
1 qt	3 pt	7 c	4 pt	5 qt	2 gal

ANSWER KEY

Ordering Customary Capacity: Order from greatest to least.

14 c	1 gal	3 qt	2 qt	5 pt	13 c
1 gal	14 c	3 qt	13 c	5 pt	2 qt

Ordering Customary Capacity: Which of the following lists is ordered from...

<p>... least to greatest?</p> <p>A 4 c, 3 pt, 5 qt, 1 gal</p> <p><input checked="" type="radio"/> B 4 c, 3 pt, 1 gal, 5 qt</p> <p>C 1 gal, 3 pt, 4 c, 5 qt</p> <p>D 3 pt, 4 c, 5 qt, 1 gal</p>	<p>... greatest to least?</p> <p>A 2 gal, 10 pt, 6 qt, 12 c</p> <p>B 2 gal, 10 pt, 12 c, 6 qt</p> <p>C 12 c, 10 pt, 2 gal, 6 qt</p> <p><input checked="" type="radio"/> D 2 gal, 6 qt, 10 pt, 12 c</p>
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<p>... greatest to least?</p> <p>A 2 gal, 6 qt, 1 gal, 10 pt</p> <p>B 6 qt, 1 gal, 5 qt, 6 c</p> <p><input checked="" type="radio"/> C 5 gal, 2 qt, 3 pt, 2 c</p> <p>D 8 pt, 5 c, 3 pt, 1 c</p>	<p>... least to greatest?</p> <p>A 2 c, 4 pt, 6 qt, 1 gal</p> <p>B 3 pt, 3 qt, 7 c, 1 gal</p> <p><input checked="" type="radio"/> C 2 pt, 2 qt, 6 pt, 15 c</p> <p>D 5 c, 2 pt, 3 qt, 1 gal</p>
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Customary Capacity Word Problems

<p>How many one-cup servings can Todd scoop from one gallon of ice cream?</p> <p>A 12 cups</p> <p>B 14 cups</p> <p><input checked="" type="radio"/> C 16 cups</p> <p>D 20 cups</p>	<p>Mary is going to make 2 boxes of chocolate pudding. The directions on each box call for 2 cups of milk. Which amount below shows how much milk Mary needs in all?</p> <p>A 1 pint</p> <p><input checked="" type="radio"/> B 1 quart</p> <p>C 1 gallon</p> <p>D 2 cups</p>
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<p>Alicia's mom asks her to water the flowers. She tells Alicia to pour about one quart of water on each plant and flower pot. Alicia has to water sixteen plants and flowers. How many times will she need to fill the gallon-sized watering can?</p> <p>A 2 times</p> <p>B 3 times</p> <p><input checked="" type="radio"/> C 4 times</p> <p>D 6 times</p>
