Chapter 12 Study Guide

Measurement benchmarks- Use benchmarks to decide what unit you would use to measure.

customary units	
ounce	yard
pound	mile
inch	gallon
foot	cup

Metric Units	
milliliter	centimeter
liter	meter
gram	kilometer
kilogram	

Examples

1. height of a computer _____ 2. Weight of a table _____

3. mass of a grasshopper _____ 4. The amount of liquid a water bottle holds _____

Customary Units of Measurement- Be able to measure and convert between units. REMEMBER if you are converting from a larger unit to a smaller unit you must multiply and your answer will be a "larger" number. If you are converting from a smaller unit to a larger unit you must divide and your answer will be a "smaller" number. (Ex. 24 inches (small) = 2 feet (big), 2 is a "smaller" number than 24)

Length	
12 in	1 foot
3 ft	1 yard
36 in	1 yard

Weight	
16 oz	1 lb (pound)
2000 lb	1 ton

Liquid Volume	
8 oz	1 cup
2 cups	1 pint
2 pints	1 quart
4 quarts	1 gallon

See Chapter 12 review homework for example problems or look at lessons 12. 2-12.4 on thinkcentral.com

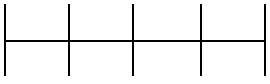
Line Plots

Understand how to take information from a tally table or story problem to create a line plot then answer questions about the line plot.

Example: Some students compared the time they spend riding the school bus. Complete the tally table and line plot to show the data.

Time spend on School Bus	
Time (in hours)	Tally
1/6	I I
1/3	
1/2	
2/3	

Time spent on school bus (in hours)
1/6, 1/2, 2/3, 1/3,1/2,1/6, 1/2, 1/2



Time spent on bus (hours)

1. How many students compared times? _____
2. What is the difference between the longest time and shortest time students spent riding the bus? _____

Metric Measurements and Conversions

Understand how to measure and convert between different units of measurement in the metric system.

Metric Length	
1 cm	10 mm
1 decimeter	10 cm
1 meter	10 dm
1 meter	100 cm
1 meter	1,000 mm
1 kilometer	1,000 m

Metric Mass	
1 kilogram	1,000 grams

Metric Liquid Volume	
1 liter	1,000 milliliters (mL)

1) 9 kilograms = _____ grams 2) 3,000 mm = _____ meters (m) 3) 5,000 mL = _____ L

4) 65 cm = _____ meter 5) 9 decimeters = _____ meter 6) 5 cm = _____ mm

Units of Time and Elapsed Time

Units of Time	
1 min	60 sec
1 hour	60 min
1 day	24 hours
1 week	7 days
1 year	12 months
1 year	52 weeks

3 minutes = _____ seconds 4 years = _____ months 2 days = _____ hours

Dora and her brother Kyle spent 1 hour and 35 minutes doing yard work. Then they stopped for lunch at 1:20 pm. At what time did they start doing yard work?