Key Words

centimeter (cm)
foot (ft)
inch (in.)
kilometer (km)
meter (m)
mile (mi)
yard (yd)

Which equivalence

do I need to use?

Inches, feet, yards, and miles are customary units of length.

Customary Units of Langth

1 foot (ft) = 12 inches (in.) 1 yard (yd) = 3 feet 1 mile (mi) = 5,280 ft *Due Tuesday*

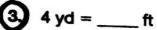
Centimeters, meters, and kilometers are metric units of length.

Metric Units of Length

1 meter (m) = 100 centimeters (cm) 1 kilometer (km) = 1,000 meters

You can use addition, subtraction, multiplication, and division to solve problems about length. You can multiply to convert from a larger unit of length to a smaller unit of length.

Complete each equivalent statement. Circled problems only!



- 13 A blue whale is 78 feet long. How many inches is 78 feet?
- A strip of land 5 kilometers long is divided into 4 sections of the same length. How many meters long is each section?



Use equivalent units of length to complete the tables. * Due Tuesday *

Yards	Feet
1	
2	a Branch Co
4. 4. 3.	
4	
5	1,81157 - 23
6	

Meters	Centimeters
1 1	
2	
3	
4	
5	
6	

- 17 Lauren is 50 inches tall. Her mother is 5 feet 6 inches tall. How much taller is Lauren's mother?
- A beetle is 2 centimeters long. A snake is 100 times as long as the beetle. How many meters long is the snake?
- 19. A spool has 5 meters of tubing. Owen cuts off a piece that is 225 centimeters long. How much tubing is left on the spool?
- 20. Nevena has a board that is 4 feet long. She cuts the entire board into pieces that are 8 inches long. How many pieces does she cut?

Name	Parent Signature	
Unit 7 M	Measurement Test Study Guide	Due Wednesde
/hat you need to know:		
rea of a rectangle/square = length x widt	th .	
erimeter of a rectangle/square = length	+ length + width + width	
ow to create and read a line plot, and ho		ta presented in a line plot
elative sizes of measurement units withi	•	••
_		_
-Units of time (day, hour, minute, se)
-Customary and metric units of wei	ght/mass (kilogram, gram / ounc	e, pound, ton)
 -Customary and metric units of capa 	acity (liter, milliliter / cup, pint, q	uart, gallon)
-Customary and metric units of leng	gth (inch, foot, yard, mile / centim	neter, meter, kilometer)
-How to convert measurements in	a larger unit to a consiler unit unit	hin the same system of
-How to convert measurements in a measurement (for example: 2 feet	10T-2	nin the same system of
Commente from anompton 2 read	- Inches	
w to record measurement equivalents	in a two column table and as nu	mber pairs.
		6
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w to solve word problems involving dis	stances, time, liquid capacity, we	ight, and money.
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The length of a desk is 36 inches an its width is 24 inches. What is the perimeter of the desk? A. 6 inches B. 12 inches C. 60 inches D. 120 inches A rectangular tablecloth measures 5 feet by 7 feet. What is the area	Practice Problems and 3. A rectange inches. We not be the A. 4 inc. B. 5 inc. C. 6 inc. D. 8 inc. 4. Lisa wantedges of	gle has an area of 80 square /hich of the following could e dimensions of the rectangle thes by 20 inches thes by 16 inches thes by 15 inches thes by 10 inches these by 10 inches the second the second these by 10 inches the second the seco
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Line Plots

Due Wednesday!

Howard gave a piece of paper with several survey questions to his friends. Then he made a list to show how long it took for his friends to answer the survey. Howard wants to know how many surveys took longer than $\frac{2}{12}$ hour.

Make a line plot to show the data.

Step 1 Order the data from least to greatest.

Step 2 Make a tally table of the data.

Step 3 Label the fractions of an hour on the number line from least to greatest. Notice that $\frac{4}{12}$ is included even though it is not in the data.

Step 4 Plot an X above the number line for each piece of data. Write a title for the line plot.

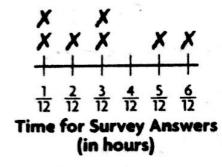
Step 5 Count the number of Xs that represent data points greater than $\frac{2}{12}$ hour.

There are $\frac{4}{12}$ data points greater than $\frac{2}{12}$ hour.

So, $\frac{4}{12}$ surveys took more than $\frac{2}{12}$ hour.

Time for Survey Answers (in hours) $\frac{1}{12}$ $\frac{3}{12}$ $\frac{1}{12}$ $\frac{2}{12}$ $\frac{6}{12}$ $\frac{3}{12}$ $\frac{5}{12}$

Survey	
Time (in hours)	Tally
1/12	1
<u>2</u> 12	de transfer
3 12	
. <u>5</u> 12	n, place a
<u>6</u> 12	# 18 32 2 May 22



Use the line plot above for 5 and 6.

- 5. How many of the surveys that Howard gave to his friends were answered?
- 6. What is the difference in hours between the longest time and the shortest time that it took Howard's friends to answer the survey?

Complete the table. Then use the completed table to list the number pairs.

7.

Feet	Inches
1	1 8 9 2 5 5 1
2	
3	
4	
5	3 3

Number Pairs:	

8.

Meters .	Centimeters
1	
2	
3	and the second of the
4	
5	en butter i triperio

Number p	oairs:	



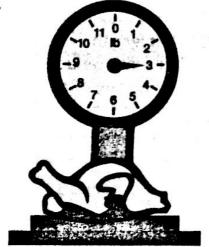
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The first number pair is (1, 12).

Convert.

Use the picture to complete the sentence.

15.



What is the weight of the chicken in ounces? _____

17.



What is the length of the garden hose in feet? _____

16.



What is the mass of the baby in grams? _____

8. ---- 3 meter



What is the length of the surfboard in centimeters?

hoose the best answer.

Due Wednesday!

- 19. Which of these units is used to measure capacity?
 - A. centimeter
 - B. meter
 - C. gram
 - D. liter

- 20. A tunnel is 3 kilometers long. What is the length of the tunnel in meters?
 - A. 30 meters
 - B. 300 meters
 - C. 3,000 meters
 - D. 30,000 meters
- 21. Julio is 6 feet tall. What is Julio's height in inches?
 - A. 12

B. 60

C. 72

- D. 96
- 22. A chemist put 1.5 liters of a solution into a beaker. Then she added 750 mL of another solution to the beaker. How many milliliters are in the beaker now?

23. Sean has a piece of rope that is 8 feet long. He needs to cut it into 6 pieces that are each exactly the same length. How many inches long will each piece of rope be?

24. Laura has to be at work at exactly 9:00 A.M. She left her house at 8:00 A.M., walked 5 minutes to the bus stop, waited 15 minutes for the bus, had a 20-minute bus ride, and walked 7 minutes to her office. How many minutes does Laura have left until she has to be at work?