٨	Name _		Parent Signature				
		Unit 7 Measu	rement Test Stud	ly Guide			
<u>Wh</u>	at you	need to know:					
-Are	ea of a	rectangle/square = length x width					
-Pe	rimete	er of a rectangle/square = length + lengt	h + width + width	n			
-Ho	w to c	reate and read a line plot, and how to a	inswer questions	s about data presented in a line plot			
		sizes of measurement units within one					
	/ -U	nits of time (day, hour, minute, second)					
<u>:</u>	\ -c	Customany and metric units of weight/mass (kilogram, gram / ounce, pound, ton)					
Irna	1	-Customary and metric units of capacity (liter, milliliter / cup, pint, quart, gallon)					
hio	≺	ustomary and metric units of length (in		(:			
In math journal!!!	(-н	low to convert measurements in a large neasurement (for example: 2 feet =	er unit to a smalle	1			
	ow to s	solve problems that include simple fract	tions or decimals	(for example: 2 ½ feet = inches)			
		ecord measurement equivalents in a tv					
		solve word problems involving distance		8			
			ctice Problems				
	The	length of a desk is 36 inches and		A rectangle has an area of 80 square			
	its width is 24 inches. What is the perimeter of the desk?		3.	inches. Which of the following could not be the dimensions of the rectangle?			
	A.	6 inches		A. 4 inches by 20 inches			
	В.	12 inches		B. 5 inches by 16 inches			
	C.	60 inches		C. 6 inches by 15 inches			
	D.	120 inches		D. 8 inches by 10 inches			
2.	A rectangular tablecloth measures 5 feet by 7 feet. What is the area of the tablecloth in square inches?		, 4.	Lisa wants to sew a fringe around the edges of a square tablecloth with a side length of 4 feet. How many inches of fringe does she need?			
		5,040 square inches		A. 16 inches			
	В.	144 square inches		B. 48 inches			
	C.	35 square inches		C. 96 inches			
	D.	24 square inches					

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Line Plots

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.

$$\frac{1}{12}$$
, $\frac{1}{12}$, $\frac{2}{12}$, $\frac{3}{12}$, $\frac{3}{12}$, $\frac{5}{12}$, $\frac{6}{12}$

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.

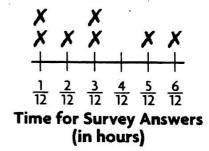
Step 5 Count the number of Xs that represent data points greater than $\frac{2}{12}$ hour.

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		
<u>1</u> 12			
<u>2</u> 12	1		
<u>3</u> 12	. 11		
5 12	1		
<u>6</u> 12			



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?

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

Feet	Inches	
1		
2		
3		
4		
5		

Number Pairs:	

8.	Meters	Centimeters
	1	
	2	
	3	
	4	
	5	

Number pairs:	

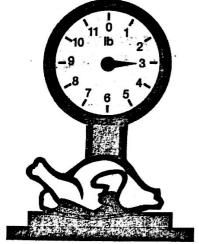
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		7	2	
	×	×		
	`(à.
	•	•	В	
٠,				

The first number pair is (1, 12).

Convert.

. **14.**
$$9 \text{ hr} = \underline{\hspace{1cm}} \text{min}$$

Use the picture to complete the sentence.



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? ____



What is the length of the surfboard in centimeters? _____

Choose the best answer.

- Iq. 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?