



# Table of Contents

How to Use This Book . . . . .	3	<b>Unit 7</b>	
NCTM Standards . . . . .	4	How to Measure Time . . . . .	29
<b>Unit 1</b>		Practice Telling Time . . . . .	30
How to Use Nonstandard Measurement . . . . .	5	Practice Measuring Time in Days, Weeks, and Months . . . . .	31
Practice How Many Fingers? . . . . .	6	Practice Measuring Time in Months of the Year . . . . .	32
Practice Hand–y Measuring . . . . .	7	<b>Unit 8</b>	
Practice Using a Foot. . . . .	8	How to Measure Temperature . . . . .	33
<b>Unit 2</b>		Practice Reading the Temperature . . . . .	34
How to Use Standard Measurement . . . . .	9	Practice Charting the Weather . . . . .	35
Practice Estimating and Measuring . . . . .	10	Practice Fahrenheit and Celsius . . . . .	36
Practice Measuring Line Segments . . . . .	11	<b>Unit 9</b>	
Practice Using Manipulatives . . . . .	12	How to Find the Area and Perimeter . . . . .	37
<b>Unit 3</b>		Practice Finding the Area . . . . .	38
How to Use Customary Measurement . . . . .	13	Practice Finding the Perimeter . . . . .	39
Practice Inches and Feet . . . . .	14	Practice Finding the Perimeter and the Area . . . . .	40
Practice How Many Inches in a Foot? . . . . .	15	<b>Unit 10 (Problem Solving)</b>	
Practice How Many Miles? . . . . .	16	Arabic and Roman Numerals . . . . .	41
<b>Unit 4</b>		Kilometers and Miles . . . . .	42
How to Use the Metric System . . . . .	17	<b>Unit 11 (Brain Teasers)</b>	
Practice Centimeters . . . . .	18	Chinese Calendar . . . . .	43
Practice Finding the Perimeter . . . . .	19	Animal Measurement . . . . .	44
Practice Centimeters or Meters . . . . .	20	<b>Unit 12 (Technology)</b>	
<b>Unit 5</b>		Measuring Distances . . . . .	45
How to Use Volume Measurement . . . . .	21	<b>Answer Key</b> . . . . .	47
Practice Cups, Pints, Quarts, and Gallons . . . . .	22		
Practice Cooking with Measurements . . . . .	23		
Practice Deciliters and Liters . . . . .	24		
<b>Unit 6</b>			
How to Measure Weight . . . . .	25		
Practice Ounces and Pounds . . . . .	26		
Practice Grams and Kilograms . . . . .	27		
Practice Pounds and Kilograms . . . . .	28		

## Learning Notes

*Customary measurement* is one type of measurement standard that is common throughout the world. For example, a foot is a common standard that is used in the United States. People around the country know that a foot is 12 inches in length.

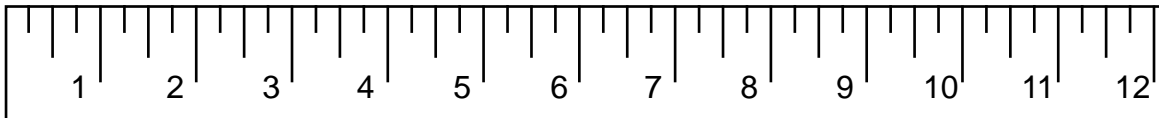
In this unit, children will use a ruler to measure objects to the nearest inch and will compare the length of an object to one foot (12 inches). The children will also complete a table that shows the relationship between inches, feet, and yards. The children will use this information to answer questions. In addition, rulers will be used to figure out the number of miles from one town to another.

## Materials

- rulers
- yardsticks (or string cut into 3-foot lengths)
- paper
- scratch paper

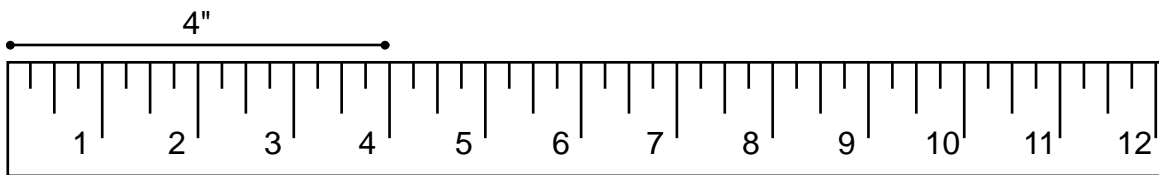
## Teaching the Lesson

Go over the markings on the ruler with the children.

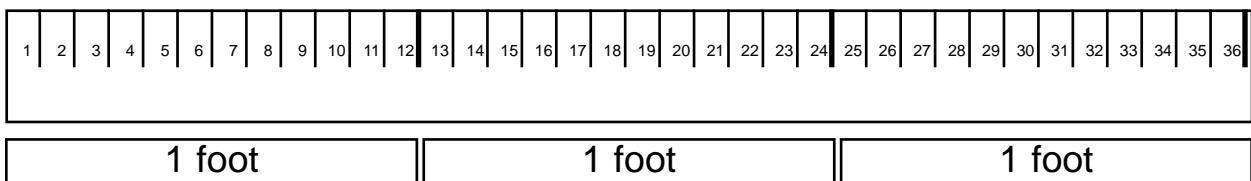


**1 ruler = 12 inches**

Model for the children how to use the ruler to measure and draw a line to a specified length on the paper. Monitor the children to make sure they are measuring from the beginning of the ruler—not from the middle of the ruler.









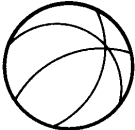

Go over the markings on a yardstick with the children. Point out that the yardstick is the length of 3 rulers. In other words, it is 3 feet long. Tell the children that it is divided into 36 inches. Give each child a yardstick or a piece of string 36 inches in length. Have the children practice measuring to different points in the room. For example, have the children measure from your chair to the classroom door.



**1 yard = 3 feet = 36 inches**

<b>Inches</b>	6 in.	12 in.	18 in.	24 in.	30 in.	36 in.	42 in.
<b>Feet</b>	$\frac{1}{2}$ ft.	1 ft.	$1\frac{1}{2}$ ft.	2 ft.	$2\frac{1}{2}$ ft.	3 ft.	$3\frac{1}{2}$ ft.
<b>Yards</b>	$\frac{1}{6}$ yd.	$\frac{1}{3}$ yd.	$\frac{1}{2}$ yd.	$\frac{2}{3}$ yd.	$\frac{5}{6}$ yd.	1 yd.	$1\frac{1}{6}$ yd.

**Directions:** Each item was measured in either feet, yards, or inches. Use the chart above to help you complete the table of information for each item below.

Item	Inches	Feet	Yards
1. suitcase 	_____ in.	_____ ft.	$\frac{5}{6}$ yd.
2. dollar bill 	_____ in.	$\frac{1}{2}$ ft.	_____ yd.
3. trash can 	18 in.	_____ ft.	_____ yd.
4. dog 	_____ in.	3 ft.	_____ yd.
5. toy car 	_____ in.	_____ ft.	$\frac{1}{3}$ yd.
6. baby 	24 in.	_____ ft.	_____ yd.
7. ball 	_____ in.	_____ ft.	$\frac{2}{3}$ yd.
8. bird house 	_____ in.	$1\frac{1}{2}$ ft.	_____ yd.