

chapter 12 Measuring Length How Far Is It?

Try different ways to measure distance.



Stand on one side of your classroom. Look across the room. Estimate the distance to the other side of the room.

It looks about _____ long.



STEP 2 Measuring Distance

Talk with your group about how you could measure the length of the room. Then try it. What did you find?

It measures about _____ long.

STEP 3 Comparing Lengths

Compare lengths with other groups. How were the results alike? How were they different?

You need

 measuring tools such as yardstick, ruler, string, paper clips, and tape measure

ivestigatio



School-Home Connection

Dear Family,

Today we started Chapter 12 of *Think Math!* In this chapter, I will learn different ways and different units to measure length. There are NOTES on the Lesson Activity Book pages to explain what I amlearning every day. Here are some activities for us to do together at home. These activities will help me as I learn to measure length.

Love,

Family Fun

What's My Length?

Work with your child to play this game. Your child will play this game in Lesson 4.

- Think of a simple measurement in inches, feet, or yards. For example, you might use 1 foot, 6 inches, or 5 yards. Do not share the measurement with your child. Keep it a secret
- Have your child ask yes/ no questions to try and guess your secret measurement. Some possible questions might be:
 - Is it longer than 1 foot?
 - Is it as long as this room?
 - Is it shorter than my hand?
- Have your child continue asking questions until he or she has correctly identified the measurement
- Switch roles and play again.

Reading Road Signs

Together, find road signs listing different distances.

- When traveling around town or on a highway, play an informal game to find road signs that give different distances.
- Call them out as you see them. After reading each one, tell whether it is a short distance or a long distance.



After returning home, you might want to draw some of the signs you sawon your trip.

© Education Development Center, Inc.

Date/Time

Cha Le	sson 1	Measurin Nonstanc NCTM Standards 1, 4, 6, 9, 10	g Lengt Iard Uni	h with Its	
My	group is r	measuring with			as the unit
Dr	awa line	for each length.			
1.	1 unit lon	IG			
	•				
2.	2 units lo	ng			
	•				
З.	3 units lo	ing			
	•				
4.	4 units lo	ing			
	•				
5.	Make you	ur own line. Measur	re it and write t	he length.	
	•				
					about units long
	NOTE: Your your child m	r child is learning about nons neasure objects around your	tandard units. Have		
·	using pennie	es as a unit of measure.	52 M		two bundred sixty five 765
			55/7	UULAV	two number sixty-live $\angle OO$

How long is each bar? Use your unit to measure.

6.	
	The bar is about units long.
7.	
	The bar is about units long.
8.	
	The bar is about units long.
9.	Drawa bar. Find its length with your unit
	The bar is about units long.
	Challenge 10. Howlong is the path? Use your unit
	The path is about units long.

© Education Development Center, Inc.



Date/Time

Chapter 12 Lesson 2

© Education Development Center, Inc.

Measuring to the Nearest Inch

How long is the picture of each object? Use a ruler to measure to the nearest inch.



How long is each real object? Estimate. Then measure to the nearest inch.

	Object	Estimate	Measurement		
6.					
	classroom door	about inches	about inches		
7.	dosk	about inches	about inches		
_					
8.	MATH + = × ++ math book	about inches	about inches		

Draw a picture of something in your classroom that matches each length.

9. about 2 inches	10 . about 5 inches	11 . about 10 inches
Problem Solv 12. Todd is buying a than 10 inches y ruler. How migh	ving a newkite. He wants one that wide. He goes to the store wit it he measure the kite?	is more thout a



Measuring in Inches, Feet, and Yards NCTM Standards 1, 4, 6, 8, 9, 10

Which unit would you use to measure each real object? Circle *inches, feet,* or *yards.*



NOTE: Your child is learning about inches, feet, and yards. Ask your child to name an object or distance that would be best to measure in yards.

Draw a classroom object or distance you would measure with each unit. Find the length.



Write inch, foot, or yard for each benchmark object.



270 two hundred seventy CCLXX

Chapter 12 Lesson 4



Which is the best unit to measure the real object? Write *inches, feet,* or *yards.*



Complete each table.

6.	Number of Yards	1	2	3		5	6	
	Number of Feet	3			12			21
7								
7.	Number of Feet	1	2	3	4	5		7
	Number of Inches	12	24				72	

Use the tables to complete the problems. Then write your own problems.

8. The chalkboard is 2 yards long. Howmany feet is that?	9. The baseball bat is 3 feet long. How many inches is that?
feet	inches
 Write a problem about yards and feet 	 Write a problem about feet and inches.

Ch 12.	allenge Each time George Gras as far as his last jump. H On which jump will he n	sshoppe His firstj nove 4 fe	er jumps, ump is 3 eet?	he mov 3 inches.	es twice	jump		-
	Jump Number	1	2	3	4	5	6	
	Distance in Inches	3	6	12				

© Education Development Center, Inc.

272 two hundred seventy-two CCLXXII 136 136

Chapter 12

Lesson

© Education Development Center, Inc.

Date/Time_

Using Fractions to Measure Length

How long is each piece of ribbon? Use a ruler to measure to the nearest half inch.



Complete each table. What is missing?

6.	Number of Yards	<u>1</u> 3	<u>2</u> 3	1		3	4	
	Number of Feet	1	2		6			15
-								
Ϊ.	Number of Feet	<u>1</u> 12	<u>2</u> 12	<u>5</u> 12	<u>7</u> 12	<u>11</u> 12		2
	Number of Inches	1	2				12	

Use the tables to complete the problems.

- 8. Tina cuts a 6-inch piece of ribbon. What fraction of a foot is the piece of ribbon?
- 9. Bob jumps 24 inches. Kyle jumps 1 yard. Who jumped further?

_____ of a foot

10. Jill has 7 feet of ribbon. Amy has 2 yards of ribbon. Who has more ribbon? Use words, numbers, or pictures to explain.



© Education Development Center, Inc



Date/Time

Chapter 12

Measuring to the Nearest Centimeter

How long is the picture of each object? Use a ruler to measure to the nearest centimeter.



Drawa line for each length. Start at the dot.



Draw a picture of something in your classroom that matches each length.

10.	about 5 centimeters	11.	about 30 centimeters	12.	about 45 centimeters

Challenge

Follow the clues to drawa figure.

13. The distance around a figure is 12 centimeters. The figure has 4 sides. The sides are NOT all the same length.

276 two hundred seventy-six CCLXXVI



Name -

Date/Time

Chapter 12

Measuring in Centimeters and Meters

Which unit would you use to measure each real object? Circle centimeters or meters.





NOTE: Your child is learning about centimeters and meters.

Choose a unit to measure each real object. Then measure to the nearest unit.

Units of Measure inches feet yards centimeters meters

	Object	Estimate	Measurement
10.	chalk		about
11.	ABCDEFGHIJ KLMNOPARST UVWXYZ chalkboard		about
12.	book		about

13. For Problem 12, howdid you choose the unit? Howdid you measure the book? _____

Problem Solving

14. Kate and Carla each have a piece of string. Kate's string is 7 centimeters long. Carla's string is 7 inches long. Who has the longer string?

Use words, numbers, or pictures to explain.

Cha Le	pter 12 sson 8	Name Problem Solving Strategy Act It Out NCTM Standards 1, 2, 4, 6, 7, 8, 9, 10	Date/Time Understand Plan Solve Check
Ι.	A pencil Can you	case is 15 centimeters long. r pencil fit in this case?	•
	How long	g is your pencil? about	
2.	Pat's per	ncil is longer than this line.	

3. Tyler buys a book for 86¢. He pays the exact amount with the fewest coins. What coins does Tyler use?

How long might Pat's pencil be? about _____

4. Alice has 12 shells, Sandy has 9 shells and Wyatt has 15 shells. They want to share the shells equally. How many shells will each person get?

_____ shells

© Education Development Center, Inc.



NOTE: Your child is exploring different ways to solve problems. Sometimes acting it out is an efficient way to solve a problem.

Problem Solving Test Prep

- When you double this odd number, you get a number between 50 and 55. What is the number?
 - A 27
 - **B** 29
 - © 31
 - D 53

- 2. There are 8 pages in a photo album. Each page has 6 photos on it. How many photos are in the whole album?
 - A 14 photos
 - B 24 photos
 - C 36 photos
 - ① 48 photos

Show What You Know

3. Jan has already delivered 135 newspapers. He has 57 more newspapers to deliver. How many newspapers will Jan deliver in all?

_____ newspapers Explain howyou found the answer.

280 two hundred eighty CCLXXX

4. Two counters are tossed on this gameboard. Add the two scores. What total scores are possible?



Explain howyou found the answer.



1. Use a paper clip as the measuring unit Drawa line 3 units long. Lesson 1

2. How long is the picture of the crayon? Use a ruler to measure to the nearest inch. Lesson 2



3. Which unit would you use to measure a real swing set? Circle *inches, feet*, or *yards.* Lesson 3

Number of Feet



6

15

18

5. Howlong is the piece of string? Use a ruler to measure to the nearest half inch. Lesson 5

about inches
Howlong is the picture of the ribbon? Use a ruler to measure to the nearest centimeter. Lesson 6
about centimeters
Which unit would you use to measure the nail? Circle <i>centimeters</i> or <i>meters</i> . Lesson 7
centimeters meters
Problem Solving Lesson 8 8. Reese has a piece of ribbon that is 2 feet long. She wants to cut it into 3 equal pieces. Howmany inches long is each piece?inches