## Measure with Inch Models



Place tiles on the squares. How many tiles? tiles
Each tile is about I inch long.
How long is the ribbon? about inches

Use color tiles. Measure the length of the object in inches.
1.

$\qquad$ inches
2.

about $\qquad$ inches

## 3. <br> 

about $\qquad$ inches

## The Long and Short of It

Use each picture to estimate the length of a classroom object. Draw and label the object below the picture.
I. The string is about 2 inches long.

Find an object that is about 3 inches long.
2. The crayon is about 4 inches long.

Find an object that is about 7 inches long.

3. The paper clip is about I inch long.

Find an object that is about 5 inches long.


Writing and Reasoning How did you use the pictures to estimate?

## Make and Use a Ruler

Use a paper strip. Mark the sides of a color tile.
Mark 6 tiles. Color each part.


Each part is about inch_ long.


Line up the left edge of the bracelet with the first mark. Count the inches.
The bracelet is about inches long.

Measure the length with your ruler.
Count the inches.
1.

$\qquad$ inches
2.

about $\qquad$ inches

## Measure the Tools

Measure all of Carpenter Dan's tools with your ruler. Below each tool, write its length. Circle the tools that are shorter than 5 inches.

about $\qquad$ inches

about $\qquad$ inches

about $\qquad$ inch


Writing and Reasoning If all of the tools were placed in a row, what would the total length be? Explain.

## Estimate Lengths in Inches



The bead is I inch long. How many beads will fit on the string?
Four beads will fit on the string.
About how long is the string? The string is about inches long.

Circle the best estimate for the length of the string.
I.


2 inches
4 inches
6 inches
2.


I inch
3 inches
5 inches
3.

I inch
2 inches
4 inches

## 4.



## Handy Measuring

Trace the outline of your index finger. Measure your finger outline with an inch ruler and write what its length is.

My finger is about $\qquad$ inches long.
Estimate the lengths for the items below in fingers.
Check your estimates by measuring with your
finger. Change your finger measurements to inches. Write what you find in the chart.

| Object | Estimate | Actual |  |
| :---: | :---: | :---: | :---: |
| notebook | _ fingers | _ fingers | about ____ inches |
| pencil | fingers | _ fingers | about ____ inches |
| marker | _ fingers | _ fingers | about ____ inches |
| tape dispenser | _ fingers | __ fingers | about ____ inches |

Writing and Reasoning Why is it useful to be able to estimate measurements using your finger?

## Measure with an Inch Ruler

I. Line up one end with 0 .
2. Find the inch mark closest to the other end.
3. Read the number of inches at that mark.


The ribbon is about inches long.

Measure the length to the nearest inch.

> I.

$\qquad$ inches
2.

$\qquad$ inches
3.

$\qquad$ inches

## Map Measurements

Using a ruler, measure from point to point on the map.
Write each distance to the nearest inch.


Writing and Reasoning Find the total distance from Mount Fairlane to Anson. Then find the total distance from Deerview to Sidell. Which distance is greater? Explain.

## Problem Solving • Add and Subtract in Inches

Zack has two strings. One string is 12 inches long and the other string is 5 inches long. How long are Zack's strings altogether?

## Unlock the Problem

| What do I need to find? |
| :---: |
|  |
| ¢6\% |

What information do
I need to use?
One string is inches long.
The other string is inches long.

Show how to solve the problem.

$12+5=$ The strings are

## Write a number sentence using

a for the missing number. Solve.
I. Sara has two pieces of yarn. Each piece is 7 inches long. How many inches of yarn does she have in all?


Sara has $\qquad$ inches of yarn in all.

## Mr. McGee Measures

Mr. McGee makes hats.
He adds ribbon, yarn, or paper to the hats.
Read the problems. Then solve.
I. Mr. McGee has a piece of ribbon that is 28 inches long. He cuts 10 inches off the ribbon. How many inches long is the ribbon now?
$\qquad$ inches
2. Mr. McGee has two strips of paper. Each strip is the same length. When he places them end-to-end, they are 18 inches long. How long is each strip of paper? $\qquad$ inches
3. Mr. McGee has a piece of yarn that is 19 inches long. He cuts off 2 pieces that are each 6 inches long. How many inches long is the yarn now? $\qquad$ inches

Writing and Reasoning Write a problem about Mr. McGee and a hat. Have a classmate solve the problem.

## Measure in Inches and Feet

The real folder is about 12 inches wide. The real folder is also about I foot wide.

I2 inches is the same as I foot.


Measure to the nearest inch.
Then measure to the nearest foot.


## How Tall Are You?

Work with a partner. Lie on the floor and ask your partner to place a piece of tape on the floor at the top of your head and at the bottom of your feet.
Measure to find your height to the nearest inch. Then measure to find your height to the nearest foot.

Write your measurements below.


I am about $\qquad$ inches tall.

I am about $\qquad$ feet tall.

Writing and Reasoning Twenty-seven inches is the same as 2 feet 3 inches. What is your height in feet and inches?

## Estimate Lengths in Feet

About how many rulers will fit along the length of a real whiteboard?


A I2-inch ruler is
 rulers, or feet about I foot long.
rulers, or

Find each object. Estimate how many I2-inch rulers will be about the same length as the object.
I. chalkboard

Estimate: $\qquad$ rulers, or $\qquad$ feet

2. poster


Estimate: $\qquad$ rulers, or $\qquad$ feet

## Estimate and Check

Find these objects. Estimate how many
I2-inch rulers would be the same length as
the object. Use rulers to check your estimate.
Write the measurement.
I. the door to your classroom

> Estimate: ___ feet

Measure: $\qquad$ feet
2. the length of your classroom

Estimate: $\qquad$ feet

Measure: $\qquad$ feet
3. a closet

Estimate: $\qquad$ feet

Measure: $\qquad$ feet
4. the width of your classroom

Estimate: ___ feet
Measure: $\qquad$ feet

Writing and Reasoning What is an object in your classroom that is about the same length as two rulers?

## Choose a Tool

Use an inch ruler to measure short lengths.


Use a yardstick to measure greater lengths.


Use a measuring tape to measure lengths
that are not flat.


## Choose the best tool for measuring the real object. Then measure and record the length.

I. a pencil


Tool: $\qquad$
Length: $\qquad$
2. a chalkboard


Tool: $\qquad$
Length:

## Bob Uses Tools

Bob measures things that begin with the letter $b$. He uses an inch ruler, a yardstick, and a measuring tape. Write the name of the best tool to use to measure each thing.
I. Bob measures the length of a brick. Which is the best tool to use?
3. Bob measures the length of a box of birdseed. Which is the best tool to use?
5. Bob measures the distance around a fish bowl. Which is the best tool to use?
2. Bob measures the distance around a basketball. Which is the best tool to use?
4. Bob measures the length of a long board. Which is the best tool to use?
6. Bob measures the length of a baby bottle. Which is the best tool to use?

Writing and Reasoning Choose one of these
things: bed, baseball, broom. Explain which tool is best to use to measure it.

## Display Measurement Data

Each $X$ on the line plot is for the length of one book.


One book is 5 inches long.
One book is 6 inches long.
Two books are 7 inches long.
One book is 8 inches long.
I. Use an inch ruler. Measure and record the lengths of 4 pencils in inches.
2. Write the numbers and draw the $X$ s to complete the line plot.

| Ist pencil: ___ inches |
| :--- | ---: |
| 2nd pencil: ___ inches |
| 3rd pencil: ___ inches |
| 4th pencil: ___ inches |



Lengths of Pencils in Inches

## Hop and Measure!

Ava measured how far a grasshopper hopped in inches. The chart shows the distance of each hop.
Use the chart to make a line plot. Write a title for the line plot.
Then write the numbers and draw the Xs .

Ist hop: 7 inches
2nd hop: II inches
3rd hop: 8 inches
4th hop: 7 inches
5th hop: II inches

$\qquad$

Writing and Reasoning Write two questions that can be answered using the line plot.

