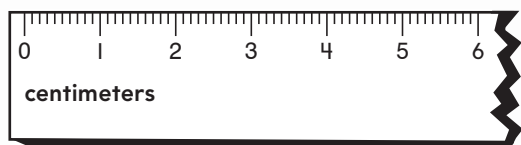# School-Home Letter

Dear Family,

My class started Chapter 9 this week. In this chapter, I will learn how to measure using centimeters and meters. I will also solve problems about adding and subtracting lengths.

Love, _____

Vocabulary

centimeter Unit of length

centimeters

meter 100 centimeters

Home Activity

Show your child an object that is about ten centimeters long. Have your child choose three or four more objects and estimate each length as more than ten centimeters or less than ten centimeters. Use the object that is about ten centimeters long to check your child's estimates.
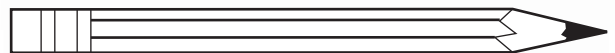
Literature

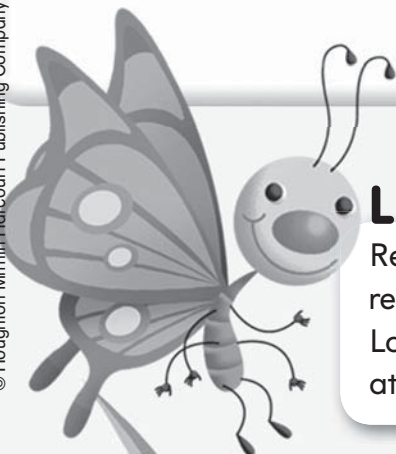Reading math stories reinforces ideas. Look for these books at the library.

How Tall, How Short, How Far Away? by David Adler. Holiday House, 2000.

Length by Henry Arthur Pluckrose. Children's Press, 1995.

© Houghton Mifflin Harcourt Publishing Company
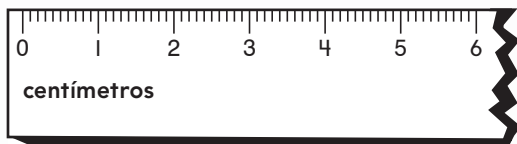
Carta
para la casa

Querida familia:

Mi clase comenzó el Capítulo 9 esta semana. En este capítulo, aprenderé a medir usando centímetros y metros. También resolveré problemas de suma y resta de longitudes.

Con cariño, _____

Vocabulario

centímetro unidad de longitud

centímetros

metro 100 centímetros

Actividad para la casa

Muéstrele a su hijo un objeto de unos diez centímetros de largo. Pídale que elija tres o cuatro objetos más y que estime el largo de cada uno en más de diez centímetros o en menos de diez centímetros. Use el objeto de unos diezcentímetros de largo para comprobar las estimaciones de su hijo.
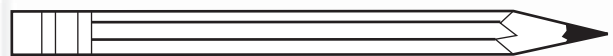
Literatura

Leer cuentos de matemáticas refuerza los conceptos. Busque estos libros en la biblioteca.

How Tall, How Short, How Far Away?
por David Adler.
Holiday House, 2000.

Length
por Henry Arthur Pluckrose.
Children's Press, 1995.

Measure with a Centimeter Model

COMMON CORE STANDARD—2.MD.1
Measure and estimate lengths in standard units.

Use a unit cube. Measure the length in centimeters.
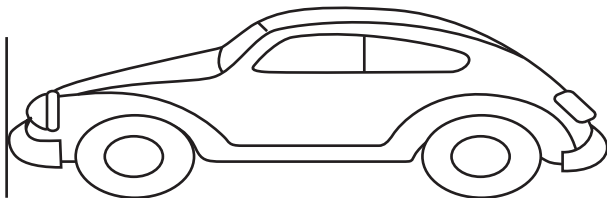
1.

about _____ centimeters

2.

about _____ centimeters

3.

about _____ centimeters

4.

about _____ centimeters

Problem Solving Real World

Solve. Write or draw to explain.

5. Susan has a pencil that is 3 centimeters shorter than this string. How long is the pencil?

about _____ centimeters

Lesson Check (2.MD.1)

1. Sarah used unit cubes to measure the length of a ribbon. Each unit cube is about 1 centimeter long. What is a good estimate for the length of ribbon?
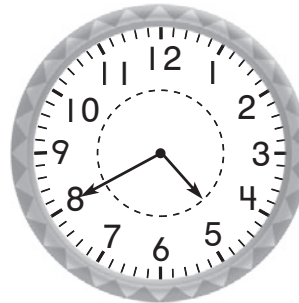
_____ centimeters

Spiral Review (2.MD.5, 2.MD.6, 2.MD.7)

2. What is the time on this clock?

____:____

3. What is the time on this clock?

____:____

4. Dan has a paper strip that is 28 inches long. He tears 6 inches off the strip. How long is the paper strip now?

_____ inches

5. Rita has 1 quarter, 1 dime, and 2 pennies. What is the total value of Rita's coins?

$ _____ or _____ cents

Estimate Lengths in Centimeters

COMMON CORE STANDARD—2.MD.3
Measure and estimate lengths in standard units.

1. The toothpick is about 6 centimeters long. Circle the best estimate for the length of the yarn.
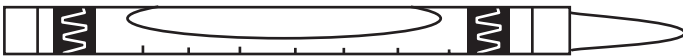
6 centimeters

9 centimeters

12 centimeters

2. The pen is about 11 centimeters long. Circle the best estimate for the length of the eraser.

4 centimeters

10 centimeters

14 centimeters

3. The string is about 6 centimeters long. Circle the best estimate for the length of the crayon.

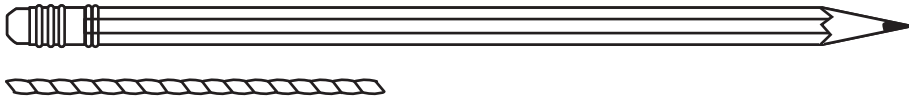5 centimeters

9 centimeters

14 centimeters

Problem Solving Real World

4. The string is about 6 centimeters long. Draw a pencil that is about 12 centimeters long.

Lesson Check (2.MD.3)

1. The pencil is about 12 centimeters long. Estimate the length of the yarn.

_____ centimeters

Spiral Review (2.NBT.5, 2.MD.5, 2.MD.6, 2.MD.8)

2. Jeremy has 58 baseball cards. He gives 23 of them to his sister. How many baseball cards does Jeremy have left?

$$
\begin{array}{r}
58 \\
-\ 23 \\
\hline
\end{array}
$$

_____ baseball cards

3. What is the sum?

$$14 + 65 = \text{\_\_\_}$$

4. Adrian has a cube train that is 13 inches long. He adds 6 inches of cubes to the train. How long is the cube train now?

_____ inches

5. What is the total value of this group of coins?

$ _____, or _____ cents
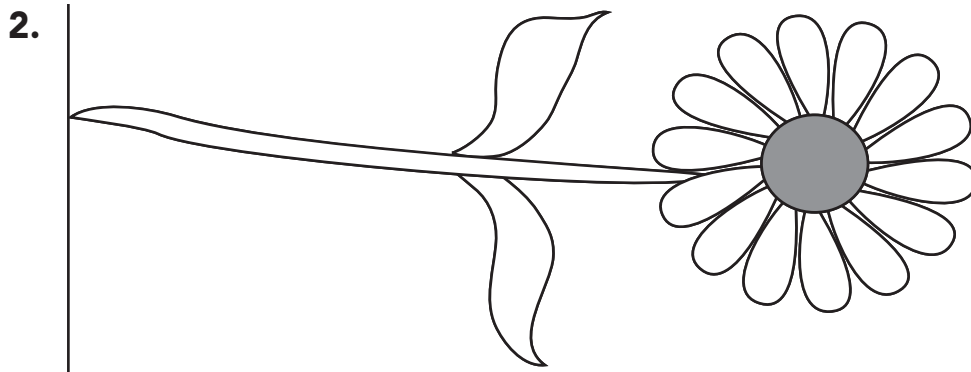
Measure with a Centimeter Ruler

COMMON CORE STANDARD—2.MD.1
Measure and estimate lengths in standard units.

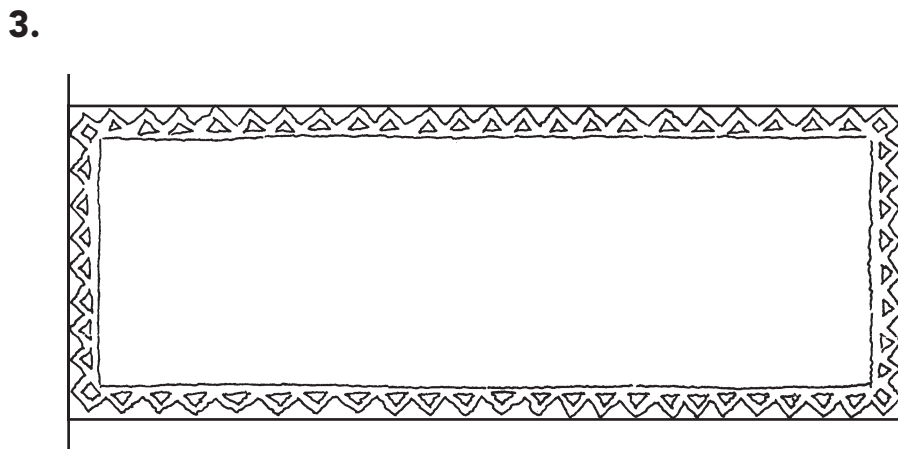## Measure the length to the nearest centimeter.

1.

_____ centimeters

2.

_____ centimeters

3.

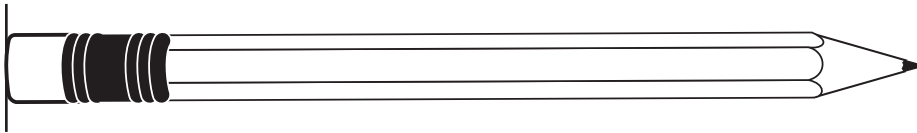_____ centimeters

Problem Solving Real World

4. Draw a string that is about 8 centimeters long.
Then use a centimeter ruler to check the length.

Lesson Check (2.MD.1)

1. Use a centimeter ruler. What is the length of this pencil to the nearest centimeter?

_____ centimeters

Spiral Review (2.MD.7, 2.MD.8, 2.MD.9)
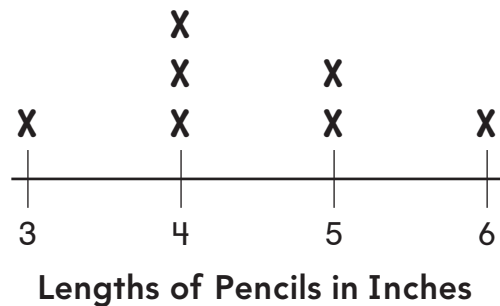
2. What is the time on this clock?

____ : ____

3. What is the total value of this group of coins?

$ _____ or _____ cents

4. Use the line plot. How many pencils are 5 inches long?

_____ pencils

```
                    X
                    X        X
   X        X       X        X
   +--------+-------+--------+
   3        4       5        6
```
Lengths of Pencils in Inches

Problem Solving • Add and Subtract Lengths

Draw a diagram. Write a number sentence using a ▮ for the missing number. Then solve.

1. A straw is 20 centimeters long. Mr. Jones cuts off 8 centimeters of the straw. How long is the straw now?

```
←┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼→
 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
```

_____
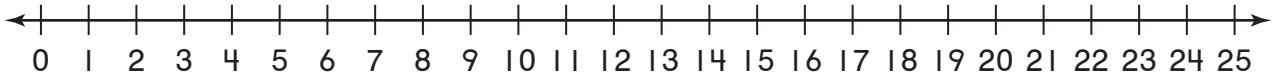
The straw is _____ centimeters long now.

2. Ella has a piece of blue yarn that is 14 centimeters long. She has a piece of red yarn that is 9 centimeters long. How many centimeters of yarn does she have altogether?
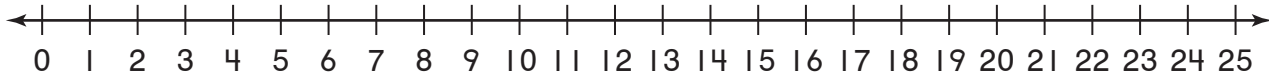
```
←┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼→
 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
```

_____
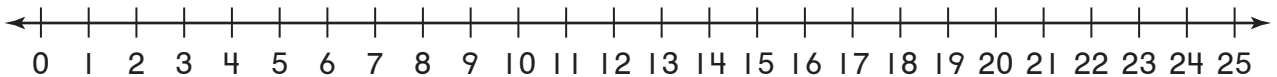
She has _____ centimeters of yarn altogether.

Lesson Check

I. Tina has a paper clip chain that is 25 centimeters long. She takes off 8 centimeters of the chain. How long is the chain now?

```
0  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
```

_____ centimeters

Spiral Review (2.NBT.7, 2.MD.7, 2.MD.8)

2. What is the sum?

$$327$$
$$+145$$

3. What is another way to write the time half past 7?

____ : ____

4. Molly has these coins in her pocket. How much money does she have in her pocket?

$ _____ or _____ cents
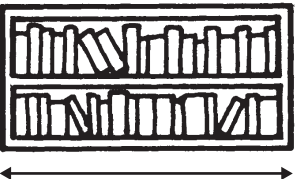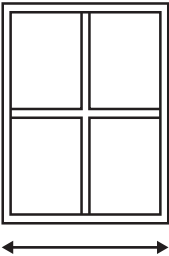
Centimeters and Meters

COMMON CORE STANDARD—2.MD.2
Measure and estimate lengths in standard units.

**Measure to the nearest centimeter.
Then measure to the nearest meter.**

Find the real object.	Measure.
1. bookcase	_____ centimeters _____ meters
2. window	_____ centimeters _____ meters
3. map	_____ centimeters _____ meters

Problem Solving Real World

4. Sally will measure the length of a wall in both centimeters and meters. Will there be fewer centimeters or fewer meters? Explain.

_____

_____

_____

Lesson Check (2.MD.2)

1. Use a centimeter ruler. What is the length of the toothbrush to the nearest centimeter?

_____ centimeters

Spiral Review (2.NBT.7, 2.MD.2, 2.MD.8)

2. List a group of coins that equals 65 cents.

_____

_____

3. Janet has a poster that is about 3 feet long. Fill in the blanks with the word inches or feet to make the statement true.

3 _____ is longer than

12 _____.

4. Last week, 483 children checked books out from the library. This week, only 162 children checked books out from the library. How many children checked out library books in the last two weeks?

$$\begin{array}{r} 483 \\ + \ 162 \\ \hline \end{array}$$

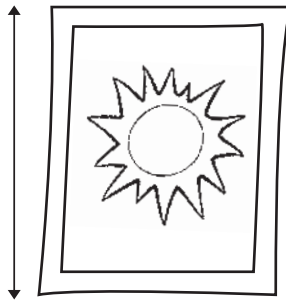**5.** List a group of coins with a value of $1.00?

_____

_____
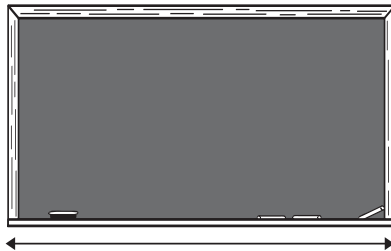
Estimate Lengths in Meters

Find the real object.
Estimate its length in meters.

1. poster

about _____ meters

2. chalkboard

about _____ meters

3. bookshelf
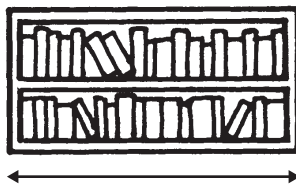
about _____ meters

Problem Solving `Real World`

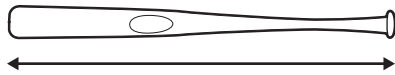**4.** Barbara and Luke each placed 2 meter sticks end-to-end along the length of a large table. About how long is the table?

about _____ meters

Lesson Check (2.MD.3)

1. What is the best estimate for the length of a real baseball bat?

_____ meter

2. What is the best estimate for the length of a real couch?

_____ meters

Spiral Review (2.MD.1, 2.MD.8)

3. Sara has two $1 bills, 3 quarters, and 1 dime. How much money does she have?

$ _____ . _____

4. Use an inch ruler. What is the length of this straw to the nearest inch?

_____ inches

5. Scott has this money in his pocket. What is the total value of this money?
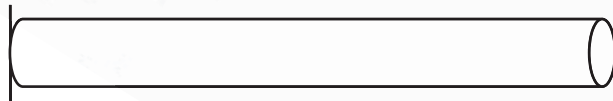
$ _____ . _____

Measure and Compare Lengths

COMMON CORE STANDARD—2.MD.4
Measure and estimate lengths in standard units.

Measure the length of each object. Write a number sentence to find the difference between the lengths.
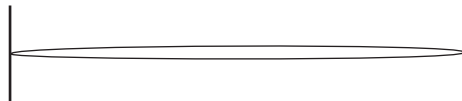
1.

_____ centimeters

_____ centimeters

_____ − _____ = _____
centimeters   centimeters   centimeters

The craft stick is _____ centimeters longer than the chalk.

2.

_____ centimeters

_____ centimeters

_____ − _____ = _____
centimeters   centimeters   centimeters

The string is _____ centimeters longer than the toothpick.

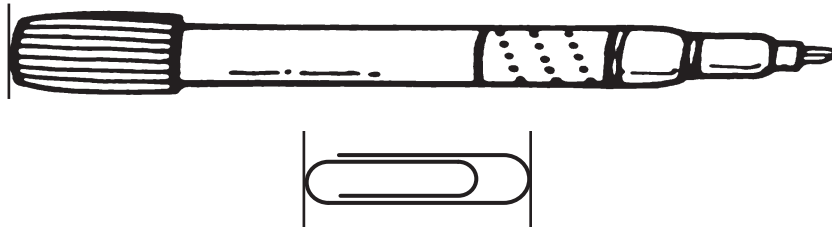## Problem Solving *Real World*

Solve. Write or draw to explain.

3. A string is 11 centimeters long, a ribbon is
24 centimeters long, and a large paper clip
is 5 centimeters long. How much longer is
the ribbon than the string?

_____ centimeters longer

Lesson Check (2.MD.4)

1. How much longer is the marker
   than the paper clip? Circle the correct answer.

11 centimeters longer   8 centimeters longer

10 centimeters longer   5 centimeters longer

Spiral Review (2.MD.3, 2.MD.7, 2.MD.8)

2. What is the total value
   of these coins?

   $ _____ or ____ cents

3. What is a reasonable estimate
   for the length of a real
   chalkboard?

   ____ feet

4. Cindy leaves at half past
   2. At what time does Cindy
   leave?

   ___ : ___