

# Measuring Length with Nonstandard Units

1. One orange rod is as long as 2 yellow rods. How many yellow rods are as long as 2 orange rods?

\_\_\_\_\_ yellow rods

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2. One paper clip is as long as 4 connecting cubes. How many cubes are as long as 3 paper clips?

\_\_\_\_\_ cubes

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3. One pencil is as long as 5 paper clips. How many paper clips are as long as 10 pencils?

\_\_\_\_\_ paper clips

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4. One eraser is as long as 4 beads. How many beads are as long as 6 erasers?

\_\_\_\_\_ beads

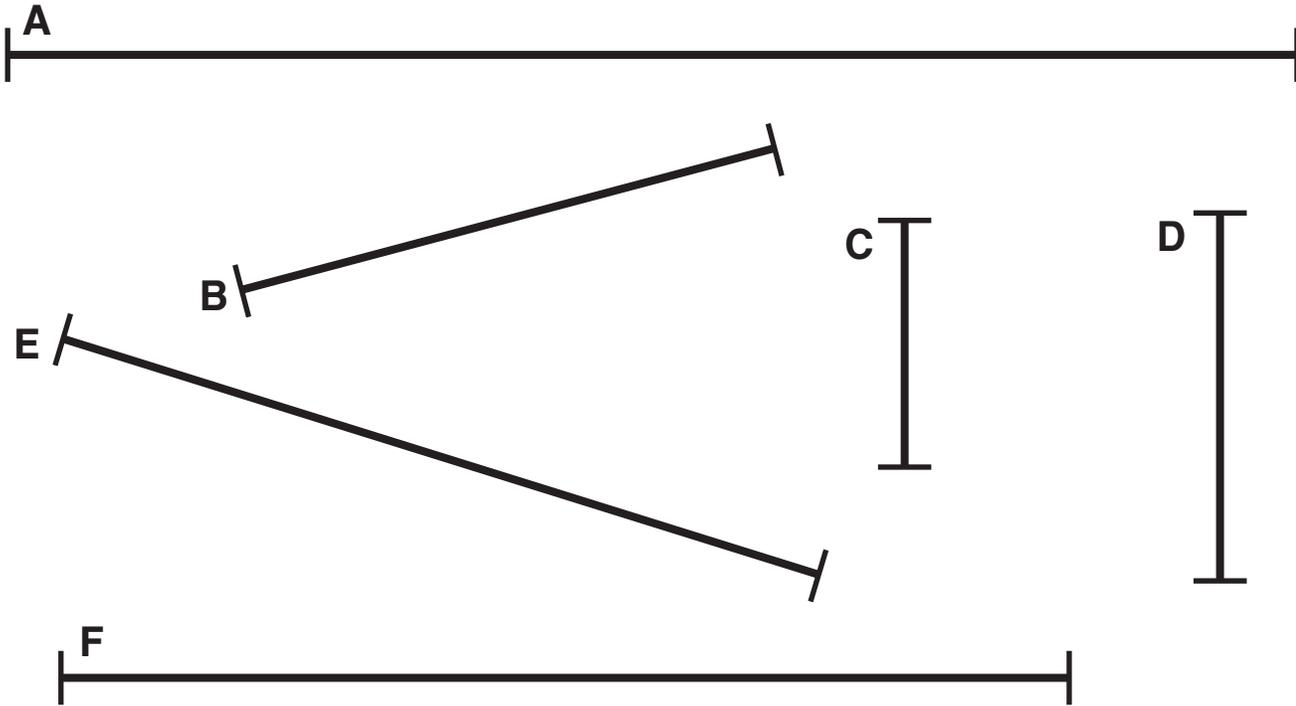
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5. Kai's watch is  $1\frac{1}{2}$  pencils long.  
One pencil is as long as 5 paper clips. How many paper clips are as long as Kai's watch?

\_\_\_\_\_ paper clips

# Measuring to the Nearest Inch

Complete the table. Estimate. Then use a ruler to measure each line to the nearest inch.



Line	Estimate	Measure
A	about _____ inches	about _____ inches
B	about _____ inches	about _____ inches
C	about _____ inches	about _____ inch
D	about _____ inches	about _____ inches
E	about _____ inches	about _____ inches
F	about _____ inches	about _____ inches

# Most Reasonable Estimates

Which is the most reasonable estimate? Circle it.

1. Tyra plants a rose bush.  
About how tall is the bush?

about 2 feet

about 20 feet

about 50 feet

2. Chris has a new puppy. About  
how long is the new puppy?

about 8 inches

about 80 inches

about 8 feet

3. Jake's mother buys a new sofa.  
About how long is it?

about 6 inches

about 6 feet

about 6 yards

4. Beth measures the length of her  
bracelet. About how long is it?

about 7 inches

about 7 feet

about 7 yards

5. Anna's baby sister is 4 years  
old. About how tall is Anna's  
sister?

about 3 inches

about 3 feet

about 3 yards

6. Alex measures the length of the  
front of his house. About how  
long is it?

about 2 yards

about 1 yard

about 15 yards

# Relating Inches, Feet, and Yards

Complete the tables.

Use a calculator to help you.

1.

<b>Number of Feet</b>	5	6	7	8	9	10	11
<b>Number of Inches</b>	60	72	84				

2.

<b>Number of Yards</b>	6	7	8	9	10	11	12
<b>Number of Feet</b>	18	21	24				

3.

<b>Number of Feet</b>	12	13	14	15	16	17	18
<b>Number of Inches</b>	144	156	168				

4.

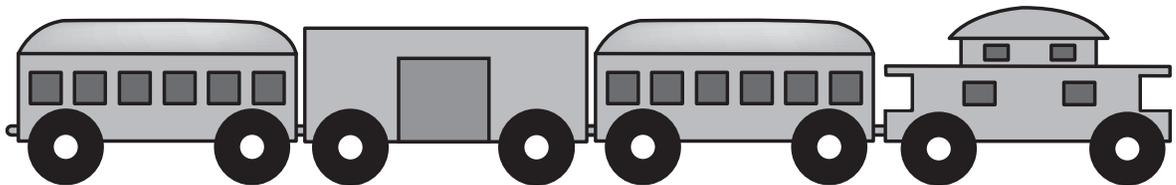
<b>Number of Yards</b>	1	2	3	4	5	6	7
<b>Number of Inches</b>	36	72	108				

5.

<b>Number of Feet</b>	5	10	15	20	25	30	35
<b>Number of Inches</b>	60	120	180				

# Using Fractions to Measure Length

1. Peter connected 4 toy train cars. Each train car is  $1\frac{1}{2}$  inches long. How long is the train of cars? \_\_\_\_\_ inches



2. How many cars are in a train that is 12 inches long? Each train car is  $1\frac{1}{2}$  inches long.

\_\_\_\_\_ cars

3. How many cars are in a train that is 2 feet long? Each train car is  $1\frac{1}{2}$  inches long.

\_\_\_\_\_ cars

4. Jon connected 5 train cars. Each car is  $2\frac{1}{2}$  inches long. How long is the train?

\_\_\_\_\_ inches

5. Lin connected 2 cars that are each  $2\frac{1}{2}$  inches long and 2 cars that are each  $1\frac{1}{2}$  inches long. How long is her train?

\_\_\_\_\_ inches

6. A red train has 4 cars that are each 2 inches long. A blue train has 6 cars that are each  $1\frac{1}{2}$  inches long. Which color train is longer?

\_\_\_\_\_

7. Jay and Mike made trains with cars that are each  $1\frac{1}{2}$  inches long. Jay's train has 15 cars. Mike's train is 2 feet long. Who has the longer train?

\_\_\_\_\_

# Measuring to the Nearest Centimeter

Angie has a set of dominoes. All of the dominoes are the same length.

1. Angie places 3 dominoes in a line. The line is 15 centimeters long. What is the length of each domino?

\_\_\_\_\_ centimeters

2. How many dominoes are in a line that is 30 centimeters long?

\_\_\_\_\_ dominoes

3. What is the length of a line of 8 dominoes?

\_\_\_\_\_ centimeters

Brian and Jan have dominoes that are a different length than Angie's dominoes.

4. Jan places 5 dominoes in a line. The line is 30 centimeters long. What is the length of each domino?

\_\_\_\_\_ centimeters

5. How many dominoes are in a line that is 18 centimeter long?

\_\_\_\_\_ dominoes

6. What is the length of a line of 8 dominoes?

\_\_\_\_\_ centimeters

