## THBRTOFCONDENRS

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## 20 Finding Length

You measure to find how long something is. You can find the length of an object using smaller objects of equal length. Line them up end to end.

Ranit measured this comb using squares. How many squares did she use?

#  



Count the squares under the comb.
There are 10 squares under the comb.
The comb is 10 spuares long.
Cliff measured the same comb using paper clips.
How many paper clips long is the comb?


Count the paper clips/under the comb.
There are 4 paper clips under the comb.
The comb is 4 paper clips long.

Do not put one square over another square. Do not leave gaps between squares.

The square is a unit. All the squares are the same. The paper clip is a unit. All the paper clips are the same.

Think About It ${ }_{6}$
Why is it important to not have gaps between squares or paper clips to find length?


## Focused Instruction

Use a longer unit to measure longer things. Work with a partner on this problem.
> How long is your classroom?


Take off your shoes. Walk the length of the classroom.
Walk heel to toe so there are no gaps.
How many footsteps long is your classroom?
$\qquad$
Measure the classroom with your shoes. Do not leave gaps between the shoes.

Use longer objects to measure longer lengths. Use shorter objects to measure shorter lengths.

How many shoes long is you classroom? $\qquad$
Compare the number of footsteps and shoe lengths.
 footsteps

Is the classroom more footsteps or more shoes long?

Which unit is shorter, footsteps or shoes?

Circle the correct word in the sentence.
You need [ more fewer ] of a small unit than a large unit to measure a length.


Suppose you measured the classroom with paper clips. How would that number/compare to the number of shoe lengths or footsteps? Tell how you know.


Why should you use longer objects to measure longer lengths?

## Use a paper clip to measure.

What is the length of this spoon in paper clips?


Mark the length of the paper elip on a small piece of paper. Use the piece of paper to mark unit lengths under the spoon. Repeat until youget the end of the spoon. How many paper clips long is the spoon? $\qquad$ end of the last measure.

## Use what you know about measuring length to answer these

 questions.1 How many pennies long is this toothbrush?

$\qquad$


2 Kali and Theo measure the length of their teacher's desk. Kali counts 8 shoes. Thee counts 11 shoes. What could be a reason that their measures are different?


## Solve the following problems.

1 Measure the length of the scissors using pennies.

Answer $\qquad$ pennies

2 Audrey measured this pencil. She used coins.


Did Audrey medsure \&orrectly? Tell how you know.

## Solve the following problems.

1 How many paper clips long is this key?


A 4
B 3
C 2
D 1
2 Which ribbon is 3 squares long? Use the square shown.


3 Cleo measures this stick of gum.


Cleo says the gum is 3 pennies long. Is she correct?


4 Nick measures a desk with this battery.


The desk is 15 batteries long.
How long is the desk in other units? Sort the objects/betow in the table by the number it takes to measure the desk.


Paper clip

5 Xun measured this straw. He used a penny.

Part A How many pennies long is the straw?

## Answer

$\qquad$ pennies

Part B Xun measured the straw again. He used this paper clip.

He thinks he will use the same number of paper clips as pennies. Is Xun correct? Tell how you


