

Explore Ordering Objects by Length



Learning Target

- Order three objects by length; compare the lengths of two objects indirectly by using a third object.

SMP 1, 2, 3, 4, 5, 6

Each cube train is a different **length**.

Draw the cube trains.

Circle the **shortest**.

Try It



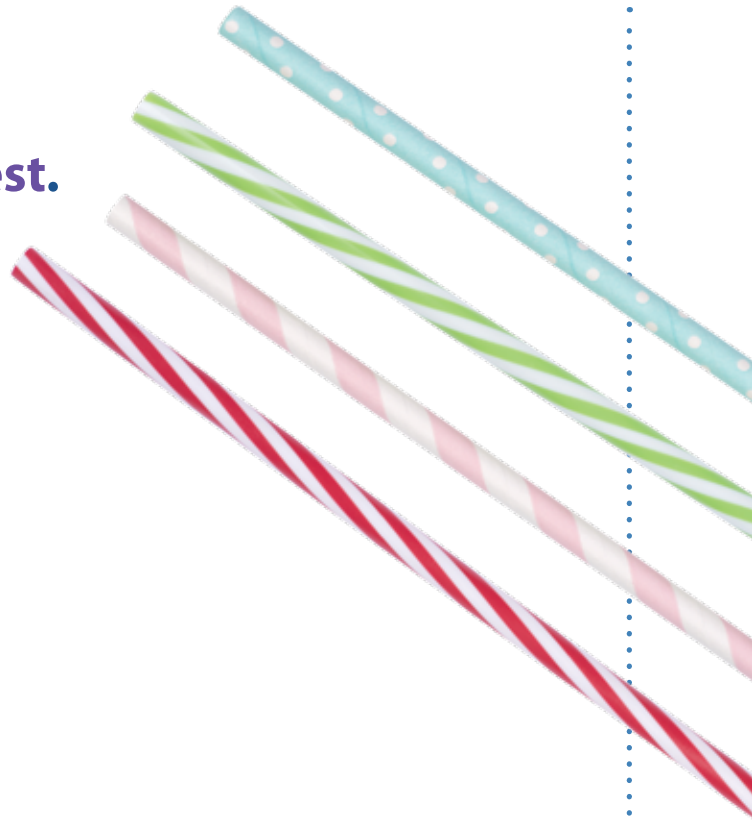
Math Toolkit

- connecting cubes



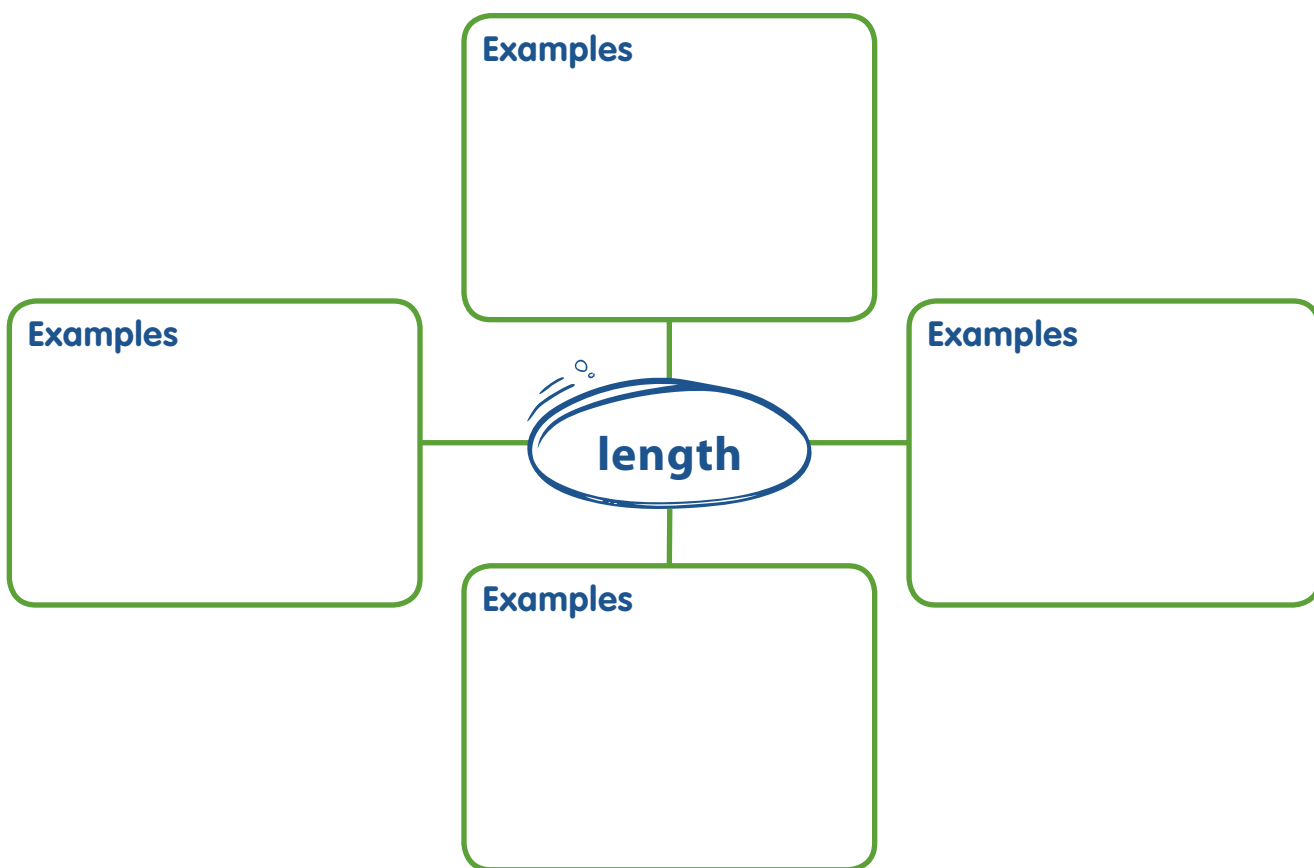
Connect It

Draw the straws. Circle the tallest.



Prepare for Ordering Objects by Length

- 1 Think about what you know about length.
Fill in each box. Use words, numbers, and pictures.
Show as many ideas as you can.



- 2 Draw a line the same length as the crayon.



- 3 Solve the problem. Draw to show your work.

Draw 3 crayons of different lengths.
Circle the longest.



Develop Ordering Objects by Length

Put your pencils in order from shortest to longest.
Which is the shortest? Which is the longest?



Try It



Math Toolkit

• connecting cubes



DISCUSS IT

I know the pencils
are in order
because ...

**Put your pencils in order from shortest to longest.
Which is the shortest? Which is the longest?**



Model It

Find the shortest and longest pencils.

Lay the pencils on the table.

Line up the ends.

Put them in order from shortest to longest.



The _____ pencil is the shortest.

The _____ pencil is the longest.

Connect It

- 1 How is your way like **Model It**? How is it different?
- 2 Why is it important to line up one end when you order objects by length?

Apply It

- 3 Order the spoons by length. Complete the sentences.

The _____ spoon is the shortest.

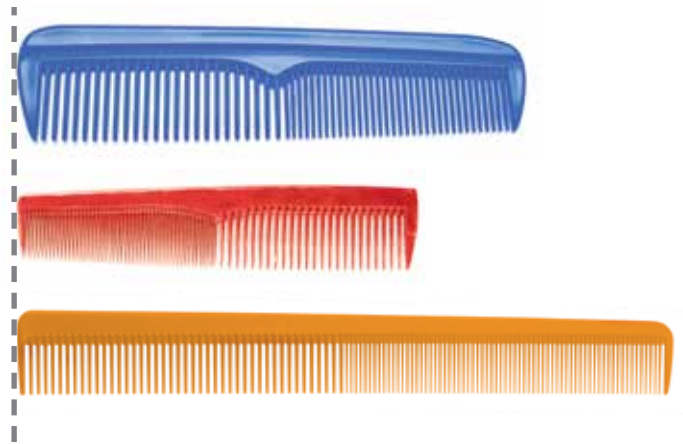
The _____ spoon is the longest.



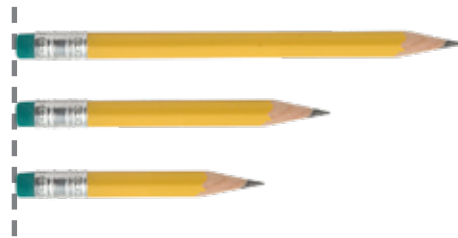
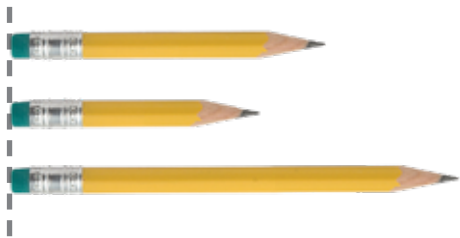
- 4 Order the combs by length.
Complete the sentences.

The _____ comb is
the shortest.

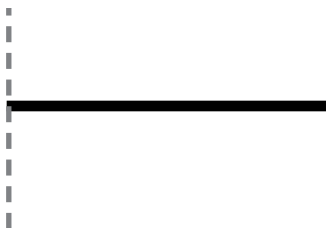
The _____ comb is
the longest.



- 5 Circle the group of pencils that shows them
in order from longest to shortest.



- 6 Draw a blue line that is **longer** than this line.
Draw a red line that is **shorter** than this line.



Practice Ordering Objects by Length

Look at the Example. Then solve problems 1–5.

Example

The pencils are lined up at one end.

They are ordered by length.

The green pencil is the shortest.

The red pencil is the longest.



1



The _____ dog is the shortest.



The _____ dog is the longest.



2



The _____ ribbon is the shortest.



The _____ ribbon is the longest.





The _____ paintbrush is the longest.

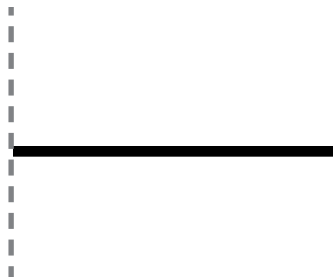
The _____ paintbrush is the shortest.



The _____ paint streak is the longest.

The _____ paint streak is the shortest.

- 5 Draw a red line that is longer than this line.
Draw a blue line that is shorter than this line.



Develop Ordering Objects by Length

Ron has 3 books. He puts them on a shelf in order from shortest to tallest.

How might Ron's books look on the shelf?

Try It



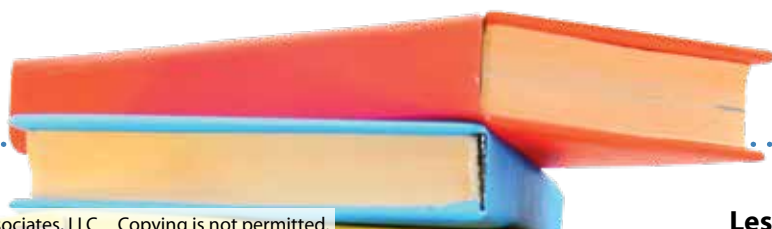
Math Toolkit

- connecting cubes



DISCUSS IT

How did you know how tall to draw the last book?



Ron has 3 books. He puts them on a shelf in order from shortest to tallest.

How might Ron's books look on the shelf?

Model It

Order the books from shortest to tallest.

Line up the bottom edges.

Circle the shortest.

Put an X on the tallest.

The _____ book is the shortest.

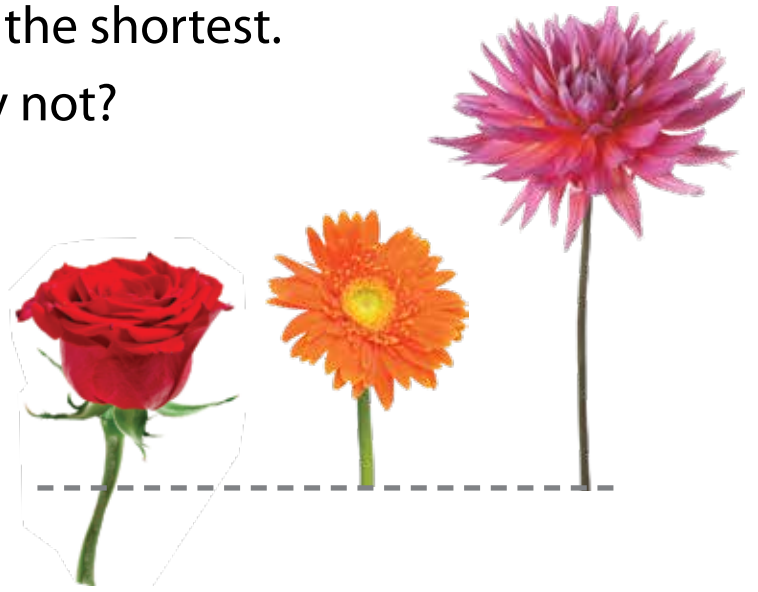
The _____ book is the tallest.



Connect It

1 How is your way like **Model It**? How is it different?

- 2 Buzz says the red flower is the shortest. Do you agree? Why or why not?



Apply It

- 3 Circle the shortest plant. Put an X on the tallest plant.



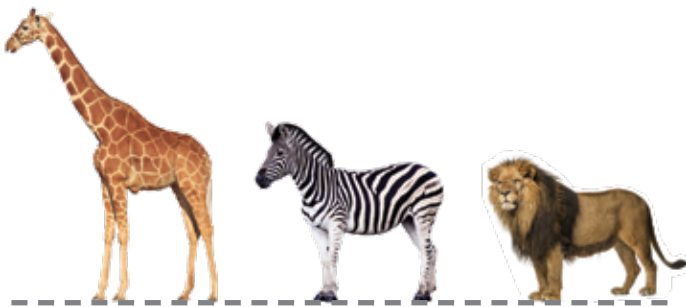
- 4 Complete the sentences.

The _____ pencil is
taller than the green pencil.

The _____ pencil
is shorter than the green pencil.



- 5 Circle the group of animals that shows them in order from tallest to shortest.



- 6 Circle the shortest pin.
Put an X on the tallest pin.



Practice Ordering Objects by Length

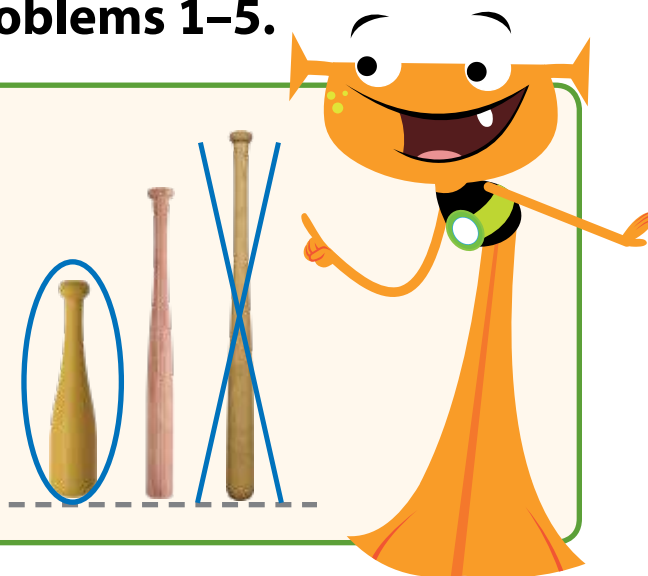
Look at the Example. Then solve problems 1–5.

Example

The bats are ordered from shortest to tallest.

A circle is around the shortest bat.

An X is on the tallest bat.



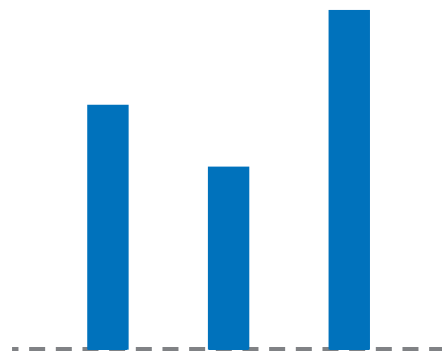
- 1 Circle the shortest plant.
Put an X on the tallest plant.



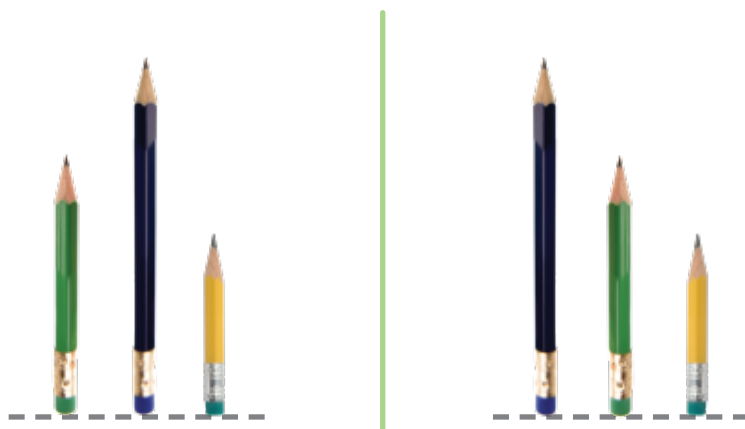
- 2 Circle the shortest flower.
Put an X on the tallest flower.



- 3 Circle the shortest rectangle.
Put an X on the tallest rectangle.



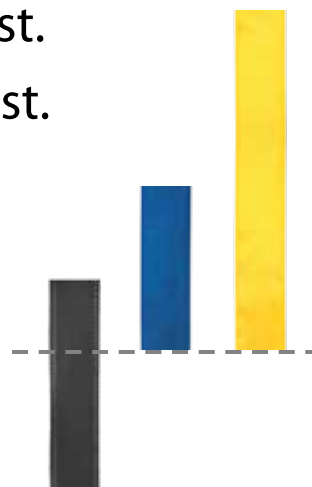
- 4 Circle the group of pencils that shows them in order from tallest to shortest.



- 5 Buzz says the black ribbon is the shortest.
Boom says the blue ribbon is the shortest.

Who is right? Circle.

Buzz Boom



Refine Ordering Objects by Length

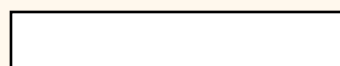
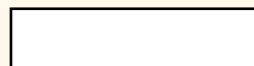
Complete the Example. Then solve problems 1–5.

Example

Read the clues. Then color the strips.

The green strip is longest.

The yellow strip is shorter than the red strip.

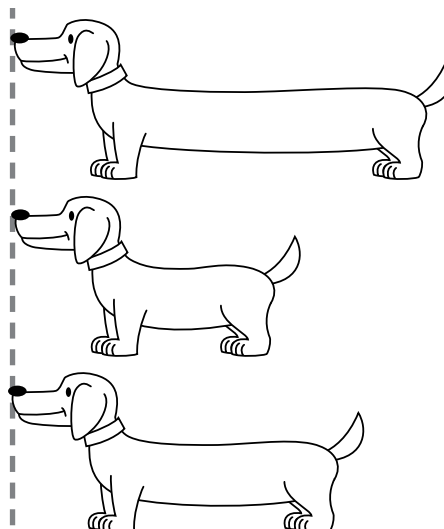


Apply It

- 1** Draw lines to show which pencil is tallest and which is shortest.



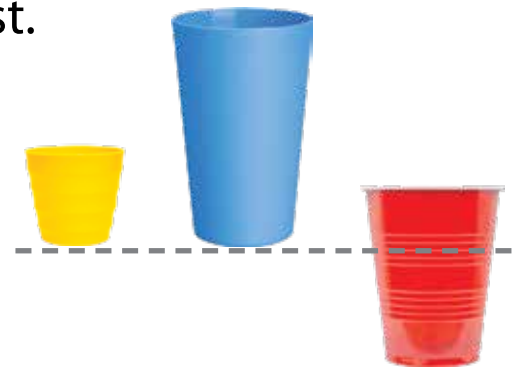
- 2** Read the clues.
Then color the dogs.
- The red dog is longest.
The blue dog is shorter than the yellow dog.



- 3 Circle the shortest one.
Put an X on the longest one.

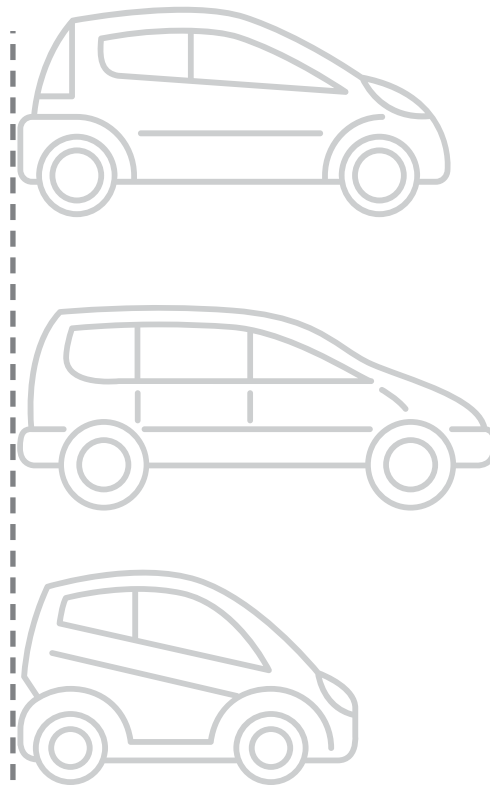


- 4 Boom says the red cup is the shortest.
Do you agree? Why or why not?



- 5 Read the clues.
Color the cars.

The blue car is shortest.
The red car is longer than
the yellow car.



Practice Ordering Objects by Length

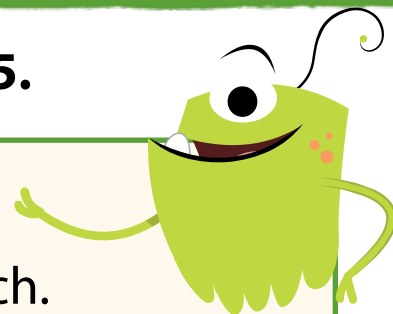
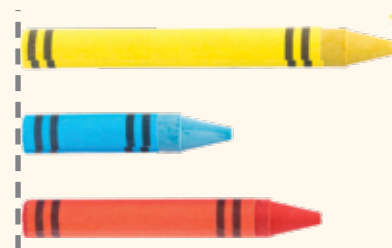
Look at the Example. Then solve problems 1–5.

Example

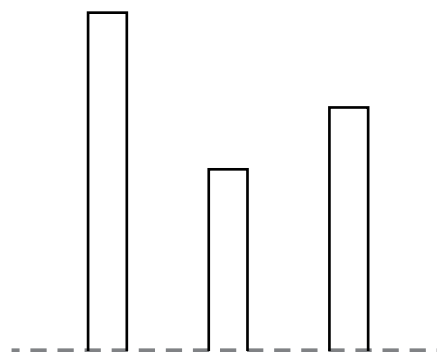
Read the clues. Then color the crayons to match.

The blue crayon is shortest.

The yellow crayon is longer than the red crayon.



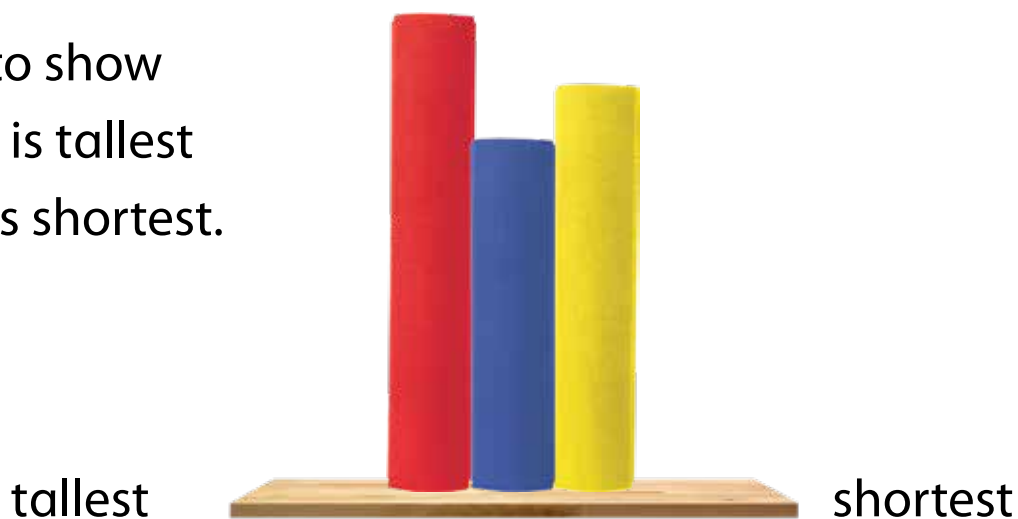
- 1 Color the tallest rectangle red.
Color the shortest rectangle blue.



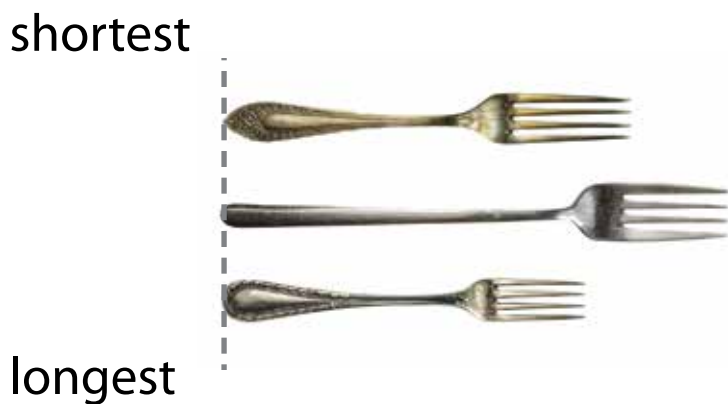
- 2 Circle the shortest paintbrush. Put an X on the longest paintbrush.



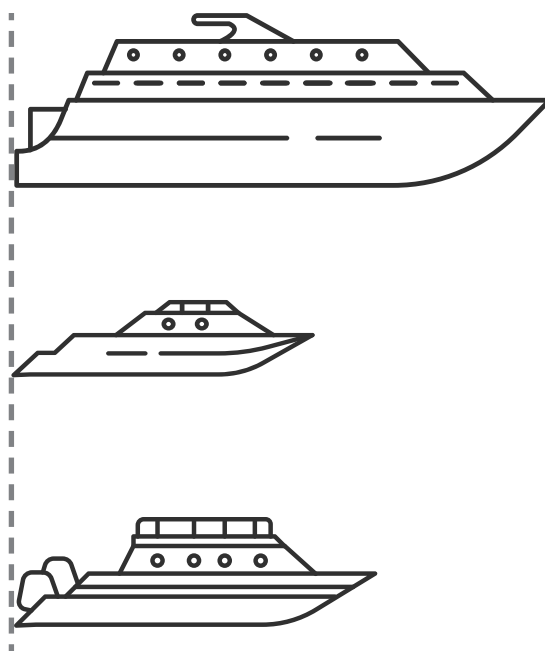
- 3 Draw lines to show which book is tallest and which is shortest.



- 4 Draw lines to show which fork is longest and which is shortest.



- 5 Read the clues.
Then color the boats.
- The blue boat is shortest.
The red boat is longer than the yellow boat.



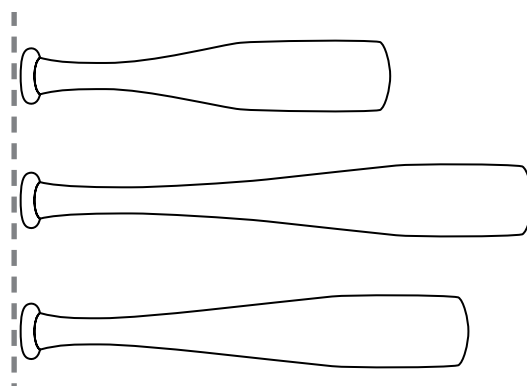
Refine Ordering Objects by Length

Apply It

Solve problems 1–6.

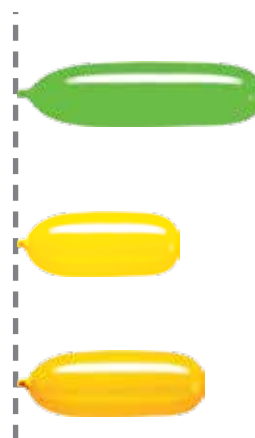
- 1** Read the clues.
Then color the bats.

The green bat is shortest.
The purple bat is longer than
the blue bat.



- 2** Circle the word that makes the sentence
true. Put an X on the other word.

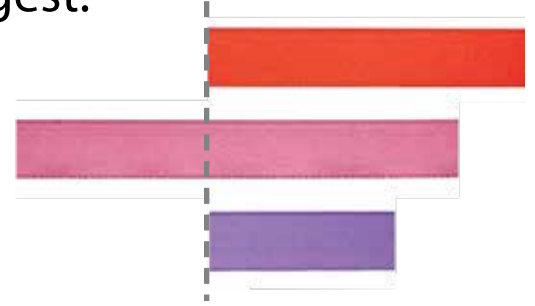
The green balloon is shorter/longer
than the orange balloon.



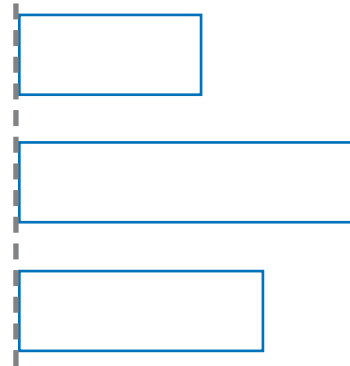
- 3** Draw a line that is taller than
both rectangles.



- 4 Boom says the red ribbon is the longest.
Buzz says that Boom is wrong.
How does Buzz know?



- 5 Read the clues.
Color the rectangles.
- The red rectangle is shortest.
The purple rectangle is longer
than the blue rectangle.



- 6 Circle the word that makes the sentence true.
Put an X on the other word.
- The blue mug is taller/shorter than the yellow mug.



Explore Comparing Lengths



Learning Target

- Order three objects by length; compare the lengths of two objects indirectly by using a third object.

SMP 1, 2, 3, 4, 5, 6

Trace your strip next to the strip of paper below. Is it taller, shorter, or the same? Circle the word.

Try It



Math Toolkit

- connecting cubes



My strip is: taller shorter the same

Connect It

Draw a line that is shorter than the yellow pencil.




Draw a line that is longer than the orange pencil.



Prepare for Comparing Lengths

- 1 Think about what you know about length and the word longer. Fill in each box. Use words, numbers, and pictures. Show as many ideas as you can.

In My Own Words	My Illustrations
Examples	Non-Examples


longer

- 2 Draw an X on the longer arrow.



- 3 Solve the problem. Draw to show your work.

Draw a line that is shorter than the orange crayon.

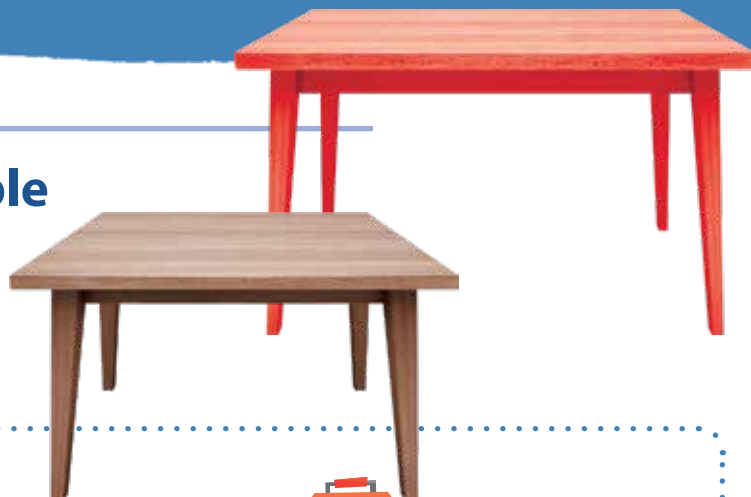


Draw a line that is longer than the green crayon.



Develop Comparing Lengths

How can you find which table is longer without putting them next to each other?



Try It



Math Toolkit

- connecting cubes
- string



DISCUSS IT

What did you use to help?

How can you find which table is longer without putting them next to each other?

Model It

Find which table is longer.

Use another object, such as a piece of string.

Compare it to the length of each table.



The red table is longer than the string.

The brown table is _____ than the string.

So, the red table is _____ than the brown table.

Connect It

- 1 How is your way like **Model It**? How is it different?
- 2 How would using a piece of string help you compare the lengths of the tables?

Apply It

- 3 Compare each comb to the same piece of string. Which comb is longer?



The blue comb is longer than the string.

The pink comb is _____ than the string.

So, the blue comb is _____ than the pink comb.

4 Which dresser is shorter?

The blue dresser is _____ than the string.

The pink dresser is _____ than the string.

So, the blue dresser is _____ than the pink dresser.

5 Which animal is longer?

The lizard is _____ than the string.

The cat is _____ than the string.

So, the cat is _____ than the lizard.

Practice Comparing Lengths

Look at the Example. Then solve problems 1–3.

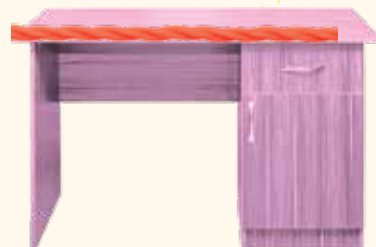


Example

Which desk is longer?

Use a piece of string.

Compare it to the length of each desk.



The blue desk is shorter than the string.

The pink desk is longer than the string.

So, the pink desk is longer than the blue desk.

- 1 Compare each bench to the same piece of string.
Which bench is longer?



The blue bench is _____ than the string.

The brown bench is _____ than the string.

So, the blue bench is _____ than the brown bench.

2 Which bookshelf is shorter?

The blue shelf is _____ than the string.

The green shelf is _____ than the string.

So, the blue shelf is _____ than the green shelf.

3 Boom measured the two desks with the same piece of string.

Buzz says the green desk is longer.

Boom says the purple desk is longer.

Who is right? Circle.

Buzz

Boom

Develop Comparing Lengths

This shoe is shorter than a strip of paper.

This spoon is longer than the same strip of paper.

Is the shoe longer or shorter than the spoon?

How do you know?



Try It



Math Toolkit

• connecting cubes



DISCUSS IT

Can you explain
your thinking to
me?

This shoe is shorter than a strip of paper.

This spoon is longer than the same strip of paper.

Is the shoe longer or shorter than the spoon?

How do you know?



Model It

Use a paper strip.

Compare each object to the paper.

Fill in the blanks.



The shoe is _____ than the spoon.

The spoon is _____ than the shoe.

Connect It

1 How is your way like **Model It**? How is it different?

2 Chris is shorter than Amy.

Ray is taller than Amy.

Boom says Chris is shorter than Ray.

Do you agree? Why or why not?

Apply It

3 Compare each object to the paper.

Fill in the blanks.



The pin is _____ than the pencil.

The pencil is _____ than the pin.

- 4 Compare each object to the paper.
Fill in the blanks.



The toy car is _____ than the lizard.

The lizard is _____ than the toy car.

- 5 Rob is taller than Pia.
Kai is shorter than Pia.

Kai is _____ than Rob.

- 6 Compare each object to the paper.
Fill in the blanks.



The spoon is _____ than the pencil.

The pencil is _____ than the spoon.

Practice Comparing Lengths

Look at the Example. Then solve problems 1–4.

Example

Compare each object to the paper.
Fill in the blanks.



The shoe is longer than the fork.
The fork is shorter than the shoe.



- 1 Compare each object to the paper.
Fill in the blanks.



The spoon is _____ than the toy car.

The toy car is _____ than the spoon.

- 2 Compare each object to the paper.
Fill in the blanks.



The flower is _____ than the toy boat.

The toy boat is _____ than the flower.

-
- 3 Carla is taller than Steve.
Yuki is shorter than Steve.
Boom says Steve is the shortest.
Buzz says Yuki is the shortest.
Who is right? Circle.

Buzz

Boom

-
- 4 Look at problem 3. Write the names in order from
the shortest to the tallest.

Refine Comparing Lengths

Complete the Example. Then solve problems 1–5.

Example

The red bar is longer
than the blue bar.



The blue bar is longer
than the green bar.



The _____ bar is the longest.

Apply It

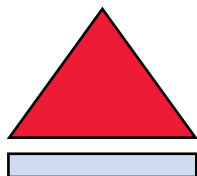
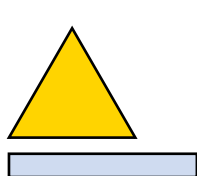
- 1 Draw a line that is longer than the pencil.
Circle the shortest object.



- 2 The crayon is shorter than the pencil.
The pencil is shorter than the notebook.

The crayon is _____ than the notebook.

- 3 Compare lengths. Then circle the correct words.



is

longer than
shorter than



- 4 Buzz says the skateboard is longer than the scooter.
Boom says the scooter is longer than the skateboard.
Who is correct? Why?

scooter



skateboard



- 5 The cat is longer than the lizard.
The dog is longer than the cat.

The lizard is _____ than the dog.



Practice Comparing Lengths

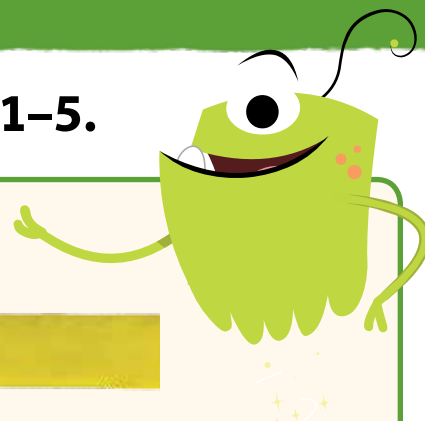
Look at the Example. Then solve problems 1–5.

Example

The yellow ribbon is shorter than the red ribbon.

The red ribbon is shorter than the blue ribbon.

The yellow ribbon is the shortest.



- 1 Compare lengths.
Then fill in the blank.

_____ is the longest.

Ben



Tad



Zeke



- 2 Draw a line that is shorter than the pencil.
Circle the longest object.



- 3 Compare lengths. Then circle the correct words.



is

longer than
shorter than



-
- 4 The blue worm is longer than the white worm.
The white worm is longer than the gray worm.

The blue worm is _____ than the gray worm.

-
- 5 The red crayon is shorter than the green crayon.
The green crayon is shorter than the blue crayon.

The red crayon is _____ than the blue crayon.

Refine Comparing Lengths

Apply It

Solve problems 1–6.

- 1** Compare lengths.
Then circle the shorter object.



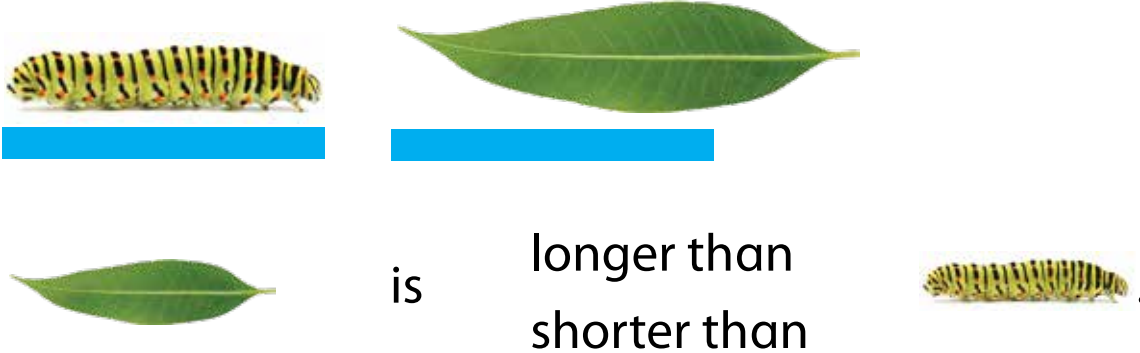
- 2** Draw a line that is shorter than the yellow rectangle.
Circle the longest shape.



- 3** The bee is longer than the ant.
The worm is longer than the bee.
The ant is _____ than the worm.



- 4 Compare lengths. Then circle the correct words.



- 5 Draw a line that is shorter than the spoon.
Circle the longest object.



- 6 The pen is longer than the marker.
The pencil is longer than the pen.
Buzz says the marker is shorter than the pencil.
Do you agree? Why or why not?

