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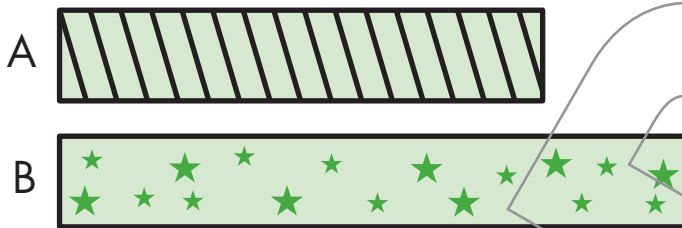
19 Comparing and Ordering by Length

1 Introduction

Length is how long an object is. It is the measurement from where the object starts to where it ends.

You can compare objects by their lengths.

Which bookmark is longer?



Both bookmarks are lined up at the left. They start at the same place.

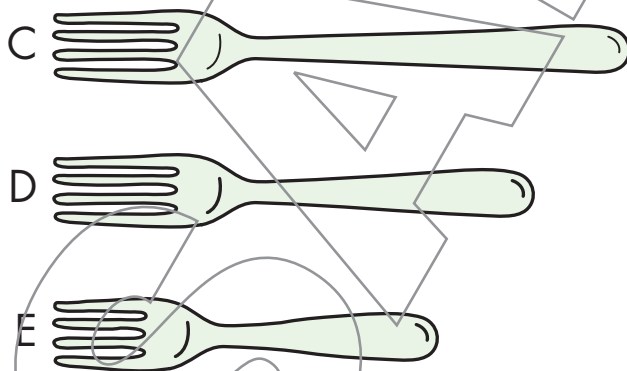
Look at both bookmarks.

Bookmark B goes farther to the right.

Bookmark B is longer.

You can order objects by their lengths.

Write the objects in order. Write the shortest first. Write the longest last.



Is fork D shorter than fork C?
Is fork D shorter than fork E?

Fork D is shorter than fork C.

Fork E is shorter than fork D.

Fork E is also shorter than fork C.

So, fork E is shorter than both fork C and fork D.

The shortest fork is fork E. Then comes fork D. The longest is fork C.

Think About It

How can you compare the lengths of two objects?

Focused Instruction

**Use a third object to compare the lengths of two objects.
Work with a partner.**

- Look at these rectangles. Compare their lengths.



Rectangle A



Rectangle B

Find an object that is longer than rectangle A.

Is it also longer than rectangle B? _____

A pencil is a good object.

Find an object that is longer than rectangle B.

Is it also longer than rectangle A? _____

Can you have an object that is longer than rectangle A but not rectangle B? _____

Can you have an object that is longer than rectangle B but not rectangle A? _____

Circle the correct word in each sentence.

Rectangle A is [longer shorter] than rectangle B.

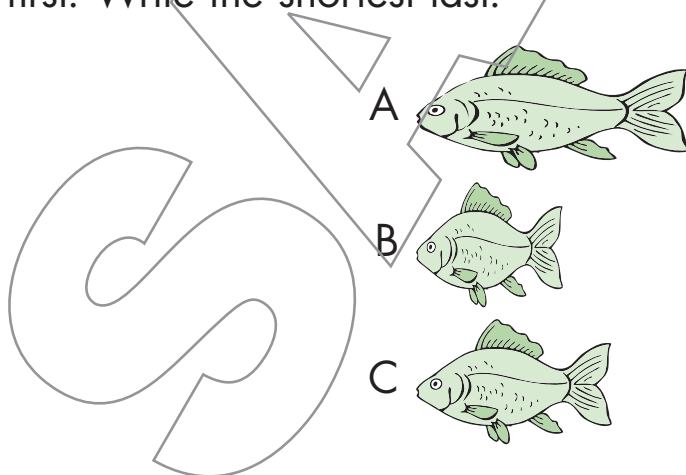
Rectangle B is [longer shorter] than rectangle A.

Draw rectangle C on page 202. Make it longer than rectangle B. Make it shorter than rectangle A.

Rectangle C is between the lengths of rectangles A and B.

You can order three objects by length.

- Order the three fish below by length. Write the longest first. Write the shortest last.



Does fish A go farther to the right?
Does fish A go farther to the left?

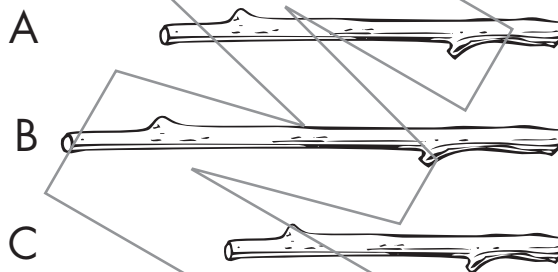
Is fish A longer than fish B? _____ How do you know?

Is fish B longer than fish C? _____ How do you know?

Is fish A longer than fish C? _____

Write the fish in order by length. Write the longest first.
Write the shortest last.

Use what you know about length to answer these questions.



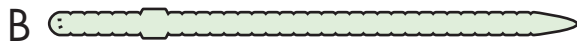
1 Which stick is the shortest? _____

2 Which stick is the longest? _____

3 Order the sticks. Write the shortest first. Write the longest last.

Solve the following problems.

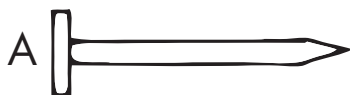
1 Which worm is longer?



Which worm goes farther to the right?

Answer _____

2 Put the nails in order. Start with the shortest nail. End with the longest nail.



Is nail A shorter than nail B or nail C?

Answer _____

3 Draw a line that is shorter than the line below.



Solve the following problems.

1 Chase has these chains.



Chase puts the chains in order. He starts with the shortest chain. Which order is correct?

A A, B, C

B C, A, B

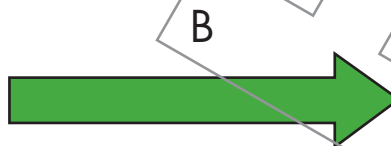
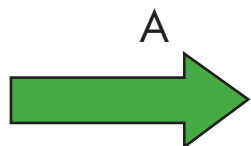
C C, B, A

D B, A, C

2 Bridget drew two lines. They have the same length. Which two lines did Bridget draw?

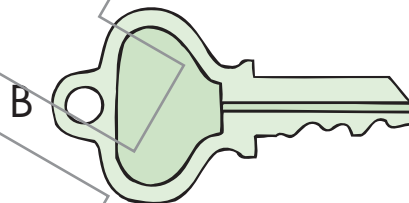
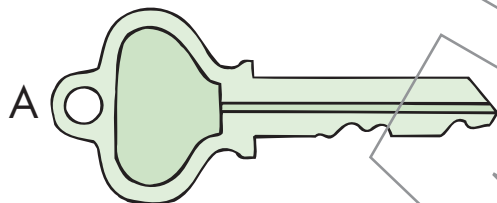


3 The two rectangles below are the same length. Which arrow is longer?



Answer _____

4 Which key is longer?



Answer _____

5 Look at line X below. Draw a line that is longer. Label it Y. Draw a line that is shorter. Label it Z.



6 Dawn has a pencil, a crayon, and a pen.

Pencil



Crayon



Pen



Part A List the objects in order. Start with the longest object. End with the shortest object.

Answer _____

Part B Dawn has another pencil. It is shown below.



Is this pencil longer than the first pencil? Tell how you know.
