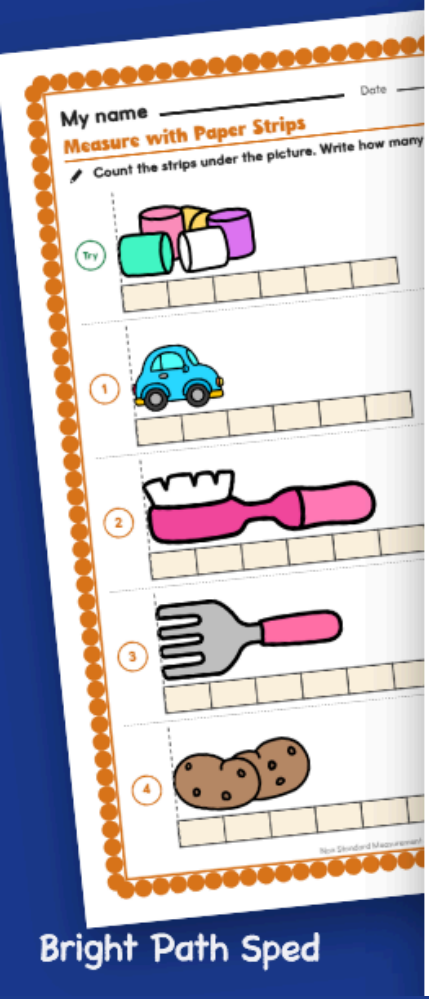
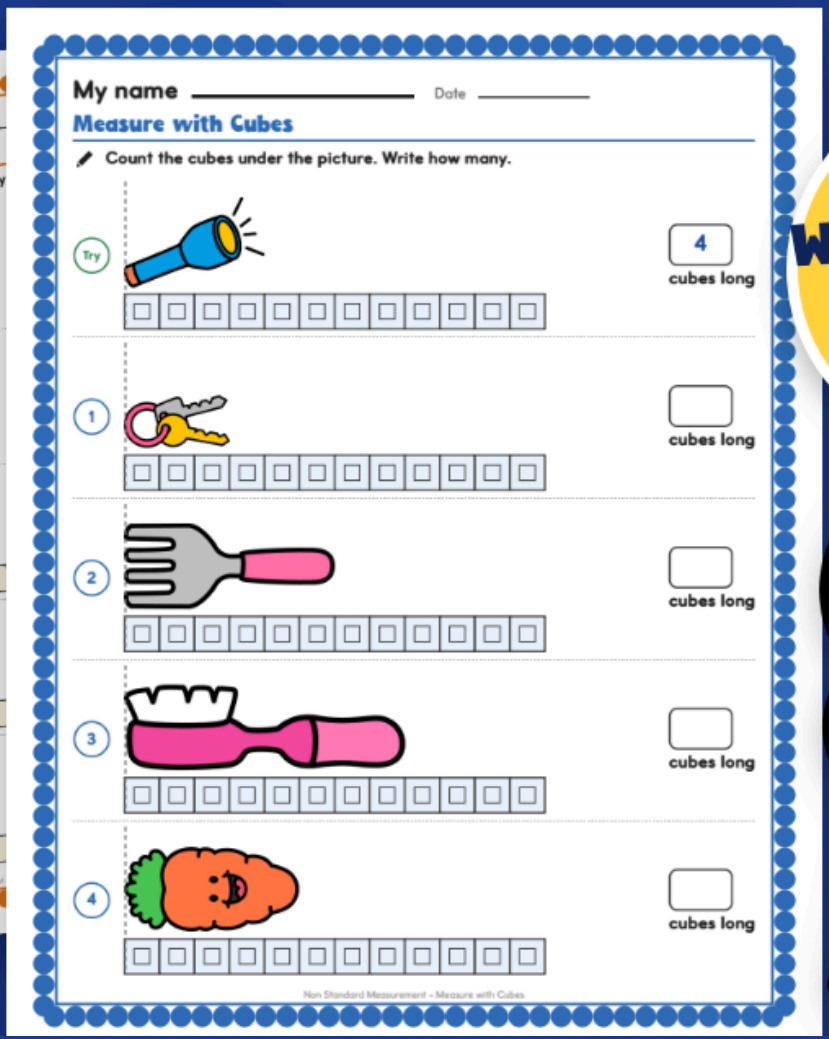
NON STANDARD MEASUREMENT WORKSHEETS

CUBES AND PAPER STRIPS GRADES K-2





14 WORKSHEETS + 13 INK SAVER



Bright Path Sped

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One classroom license

- This file is for one classroom: one teacher, one group of students.
- Please do not share it, post it online, or sell it.
- Extra licenses for a team or a school are available on the product page.

This is a fillable PDF

- Open it in a PDF reader (Adobe Acrobat Reader, Preview, or your browser), click into a box, type, and Save As.
- The name lines and the answer boxes on the student pages are type-in fields. You can also print any page and write by hand. The bars are colored by hand on a printed page.
- It works offline. No account, no subscription, no internet connection needed after you download it.

Print at 100 percent

Turn off fit to page and shrink to fit so the cubes and strips print at their true size and the cut bars on pages 16 and 17 stay their printed size.

How the pieces fit

- Student pages 6 to 20: the how-to poster, the worksheets and the skill check.
- Ink-saver pages 21 to 33: black-and-white copies of 13 worksheets.
- Check against the answer keys on pages 34 and 35. How to teach it is on pages 4 and 5.

Need help?

If a box will not behave or a page will not print the way you expect, use Ask a Question on the product page first. Every question is read, and a fix ships as a free update from My Purchases.

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PREVIEW

Teach How to Measure First

Five minutes with one bar and some cubes makes every worksheet go smoothly. Do it out loud.

Start at the line



The first cube touches the start line. The bar is 4 cubes long.

Not like this



The cubes start late, so the count is 3 and it is wrong.

Ask the same three questions about every bar

- Where does the bar start? Put your finger on the line.
- Are the units all the same size, with no gaps and no overlaps?
- Where does the bar end? How many units fit between the start and the end?

Words we use

- **length**: how long something is, from one end to the other.
- **unit**: one cube or one paper strip, used again and again to measure.
- **longer, shorter**: used when you compare two bars. **longest, shortest**: used for three or more.
- **how many more**: the difference between the two lengths.

Try it with real units first

- Lay a row of linking cubes along a paper bar, starting at the line. Count them out loud together.
- Do the same bar with paper strips. Ask: why is the count smaller with strips?
- Then let the child count the printed cubes and strips on the poster and the worksheets.

Do the poster together

- Page 6 shows a good measure, a mistake and a strip measure. Read it with the group before the first worksheet.
- Point out the dashed start line. Every bar on every page begins on it.
- Keep the poster out while children work.

Why non standard units?

- A cube or a strip is not an inch or a centimeter. Children count what they see, and learn that a measure is a unit repeated.
- When the unit changes, the number changes: a bar that is 6 cubes long is not 6 strips long. Try it with the poster.
- Rulers with inches and centimeters come next. Our Measuring Inches and Centimeters pages pick up from here.

PREVIEW

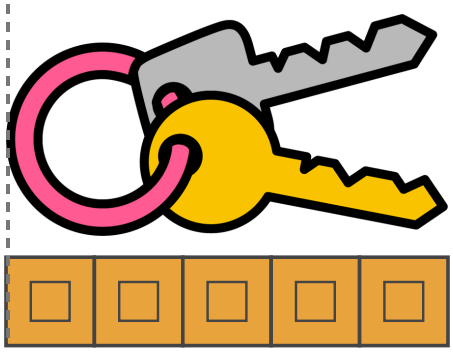
Preview - Bright Path Sped

My name _____ Date _____

How to Measure

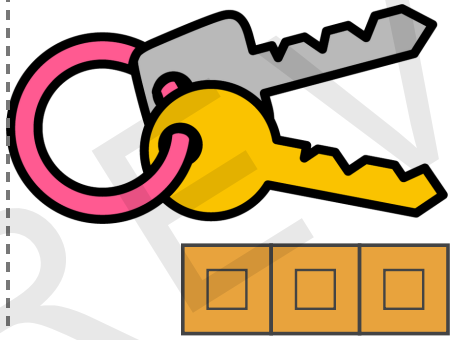
Look. Say it out loud.

Start at the line



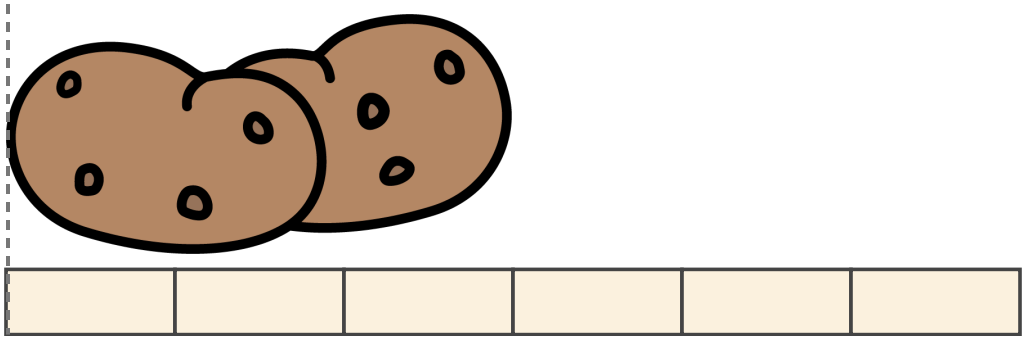
The key is 5 cubes long

Not like this



The cubes start late. The count is wrong.

Same units



The potato is 3 strips long

Line up at the start. No gaps. Count each cube.

PREVIEW

Preview - Bright Path Shed

My name _____ Date _____

Measure with Cubes

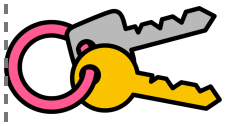
Count the cubes under the picture. Write how many.

Try



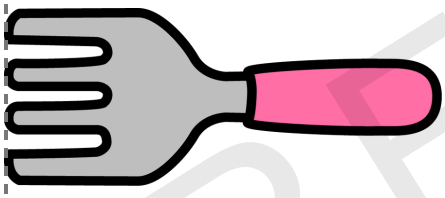
4 cubes long

1



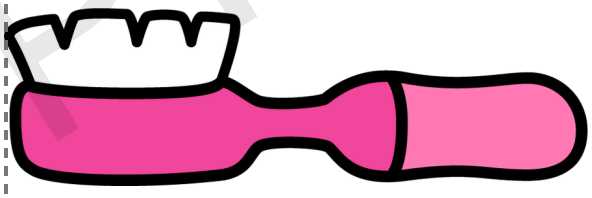
_____ cubes long

2



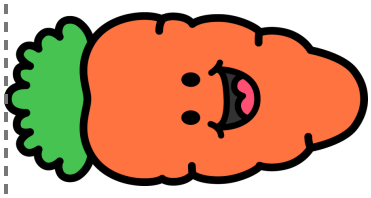
_____ cubes long

3



_____ cubes long

4



_____ cubes long

PREVIEW

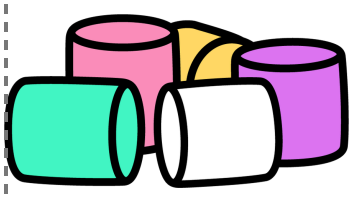
Preview - Bright Path Sped

My name _____ Date _____

Measure with Paper Strips

Count the strips under the picture. Write how many.

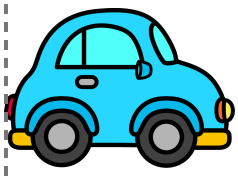
Try





3 strips long

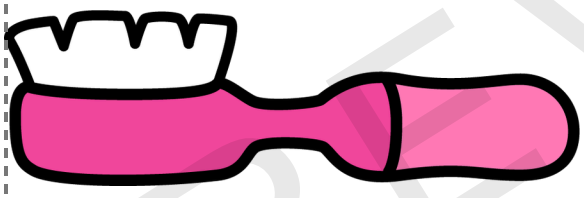
1





_____ strips long

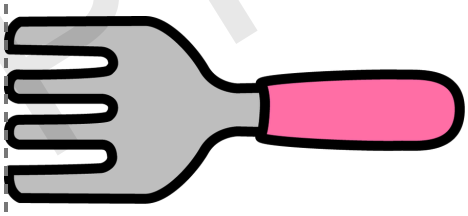
2





_____ strips long

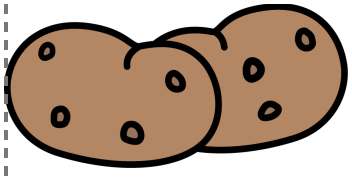
3





_____ strips long

4





_____ strips long

PREVIEW

Preview - Bright Path Shed

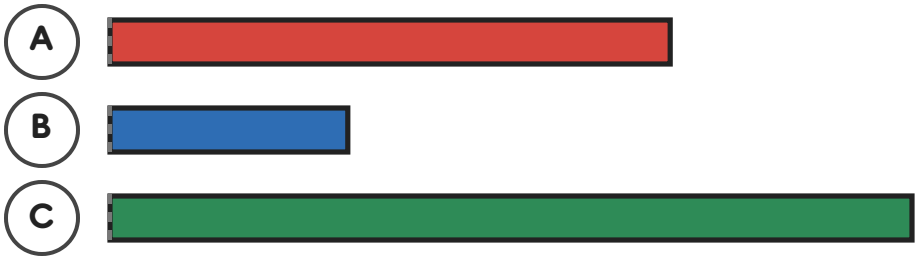
My name _____ Date _____

Longest and Shortest

Read the word. Circle the letter of the bar.

1

Circle the LONGEST bar.



2

Circle the SHORTEST bar.



3

Circle the LONGEST bar.



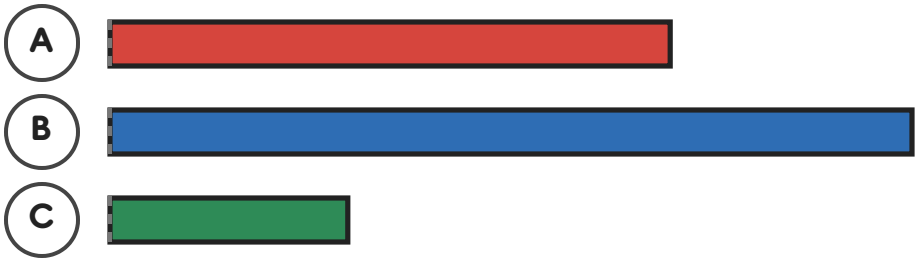
4

Circle the SHORTEST bar.



5

Circle the LONGEST bar.



PREVIEW

Preview - Bright Path Shed

My name _____ Date _____

Which Is Shorter?

Count the cubes. Circle the shorter one.

1



A ☐☐☐☐☐☐☐



B ☐☐☐☐☐☐☐

A ☐ cubes

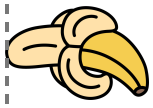
B ☐ cubes

Circle the shorter: A B

2



A ☐☐☐☐☐☐☐



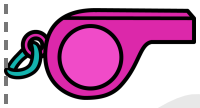
B ☐☐☐☐☐☐☐

A ☐ cubes

B ☐ cubes

Circle the shorter: A B

3



A ☐☐☐☐☐☐☐



B ☐☐☐☐☐☐☐

A ☐ cubes

B ☐ cubes

Circle the shorter: A B

4



A ☐☐☐☐☐☐☐



B ☐☐☐☐☐☐☐

A ☐ cubes

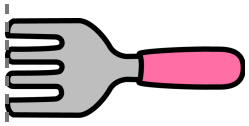
B ☐ cubes

Circle the shorter: A B

5



A ☐☐☐☐☐☐☐



B ☐☐☐☐☐☐☐

A ☐ cubes

B ☐ cubes

Circle the shorter: A B

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Fix the Mistake

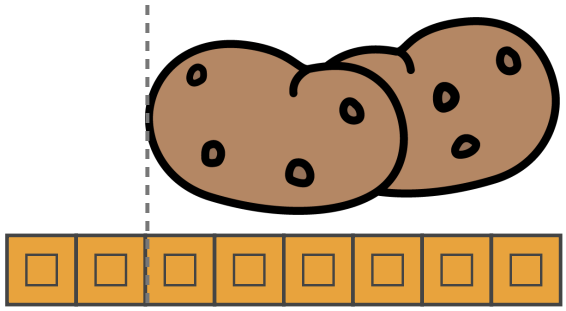
The cubes do not start at the line. Fix it.

1



I counted 3 cubes.
The cubes start:
too late | too early
Really: ____ cubes

2



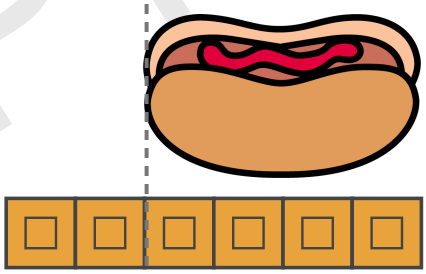
I counted 8 cubes.
The cubes start:
too late | too early
Really: ____ cubes

3



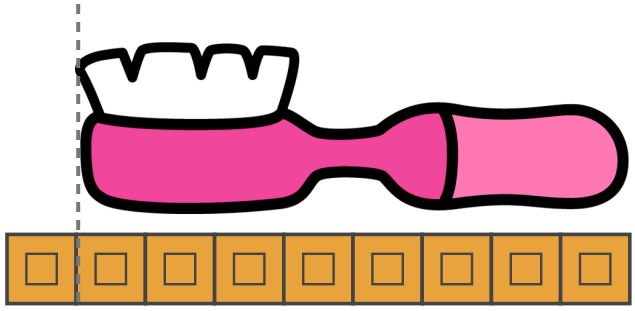
I counted 4 cubes.
The cubes start:
too late | too early
Really: ____ cubes

4



I counted 6 cubes.
The cubes start:
too late | too early
Really: ____ cubes

5



I counted 9 cubes.
The cubes start:
too late | too early
Really: ____ cubes

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Order by Length

Cut the bars. Glue them in order, longest first.

1 longest

2

3

4

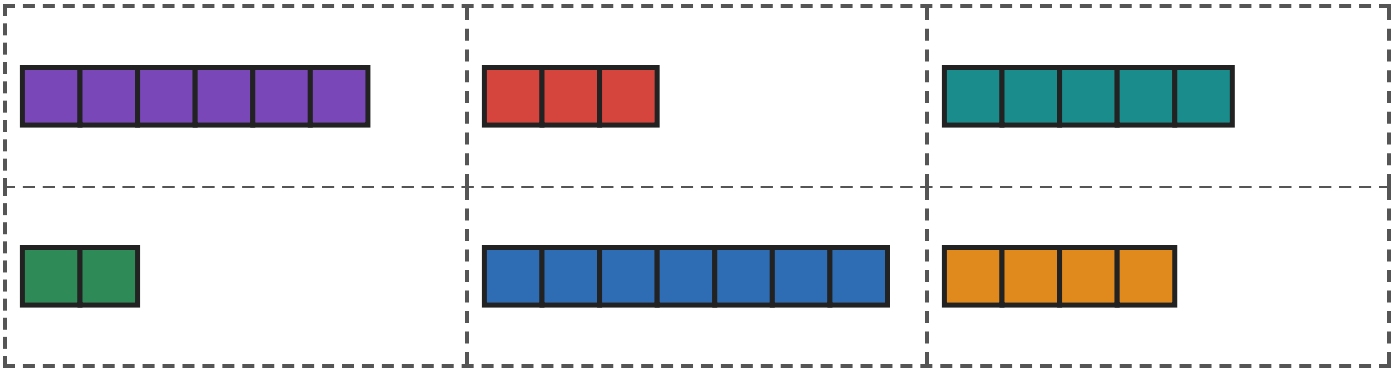
5

6 shortest

PREVIEW

The shortest bar is ☐ The longest bar is ☐

Cut on the dashed lines. Glue the bars in order.

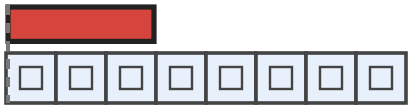


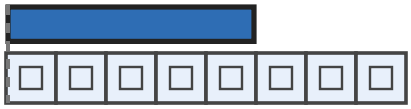
Preview - Bright Path Shed

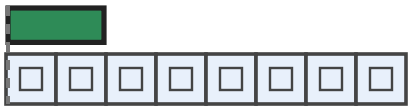
My name _____ Date _____

Measure Fluency

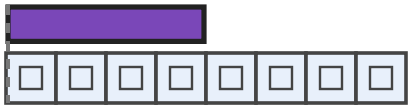
Count fast. Write how many cubes.

1  ☐

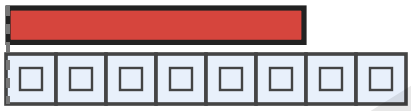
2  ☐

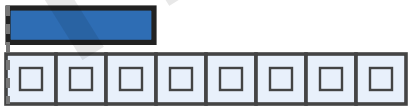
3  ☐

4  ☐

5  ☐

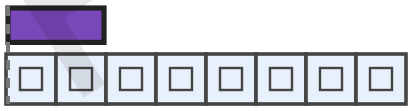
6  ☐

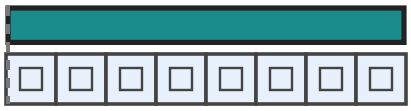
7  ☐

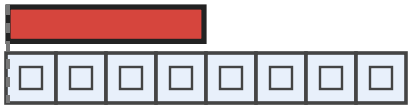
8  ☐

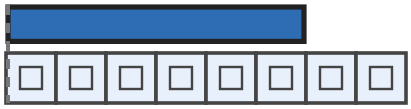
9  ☐

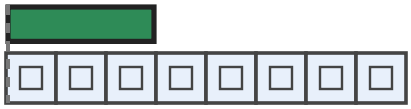
10  ☐

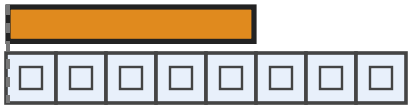
11  ☐

12  ☐

13  ☐

14  ☐

15  ☐

16  ☐

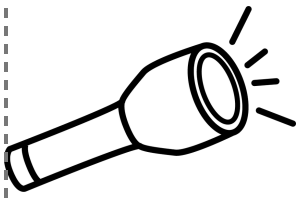
PREVIEW

My name _____ Date _____

Measure with Cubes

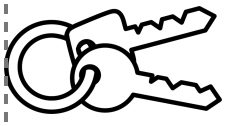
Count the cubes under the picture. Write how many.

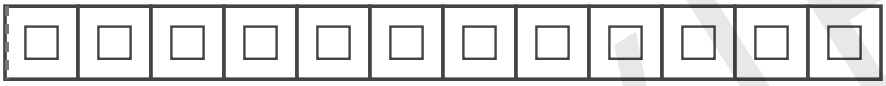
Try



4 cubes long

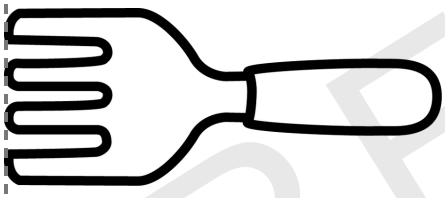
1





_____ cubes long

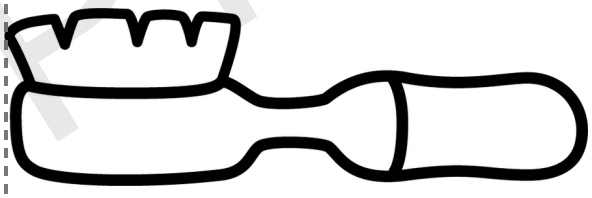
2

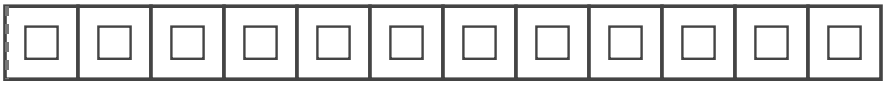




_____ cubes long

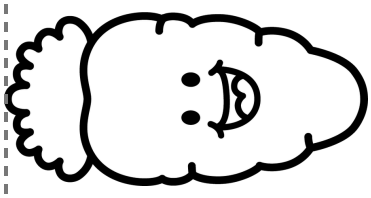
3

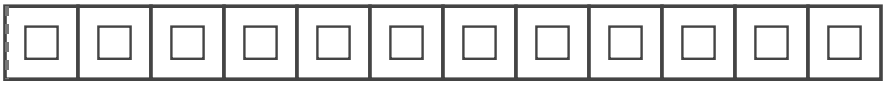




_____ cubes long

4





_____ cubes long

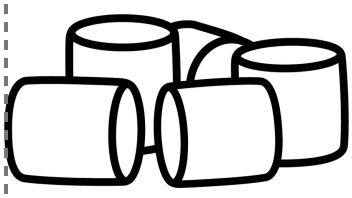
PREVIEW

My name _____ Date _____

Measure with Paper Strips

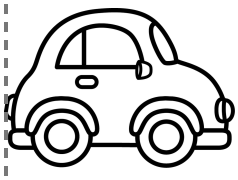
Count the strips under the picture. Write how many.

Try



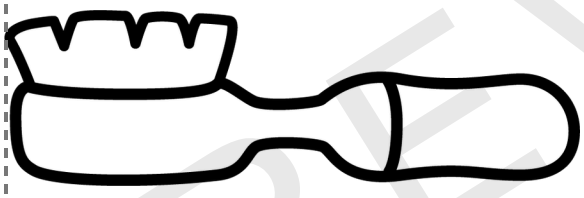
3 strips long

1



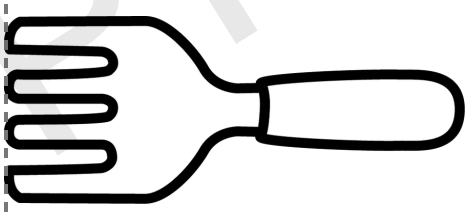
_____ strips long

2



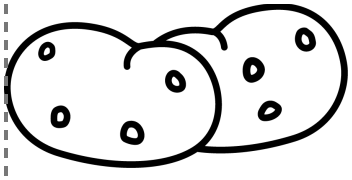
_____ strips long

3



_____ strips long

4



_____ strips long

PREVIEW

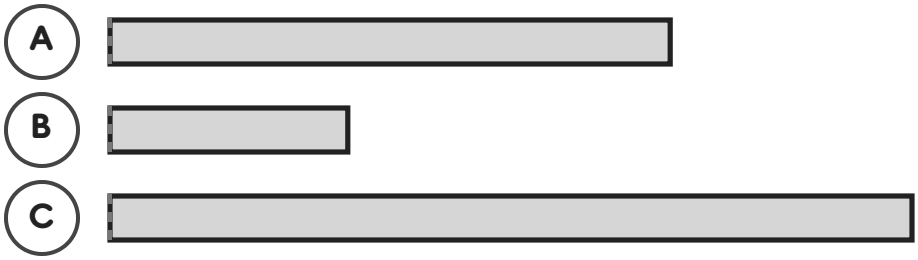
My name _____ Date _____

Longest and Shortest

Read the word. Circle the letter of the bar.

Circle the LONGEST bar.

1



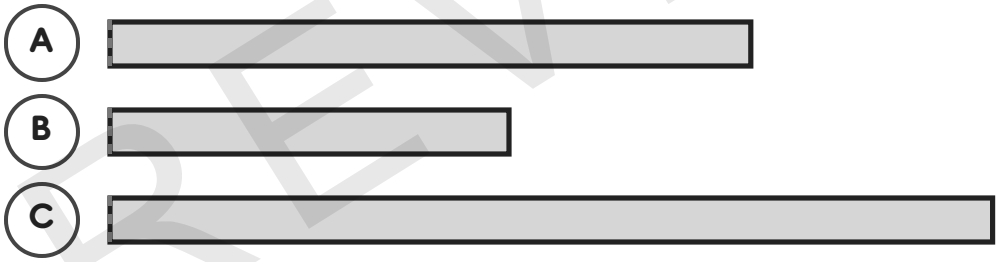
Circle the SHORTEST bar.

2



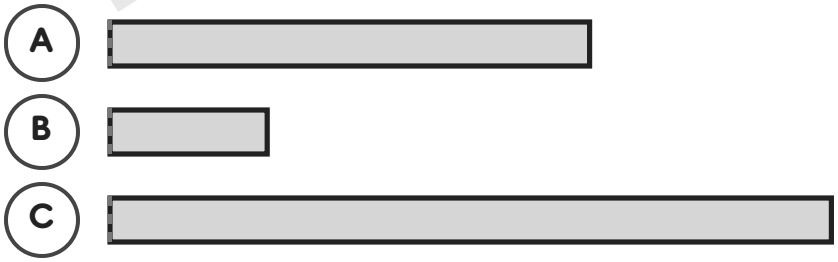
Circle the LONGEST bar.

3



Circle the SHORTEST bar.

4



Circle the LONGEST bar.

5



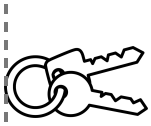
PREVIEW

My name _____ Date _____

Which Is Shorter?

Count the cubes. Circle the shorter one.

1



A ☐☐☐☐☐☐☐



B ☐☐☐☐☐☐☐

A ☐ cubes

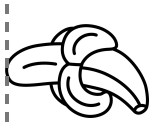
B ☐ cubes

Circle the shorter: A B

2



A ☐☐☐☐☐☐☐



B ☐☐☐☐☐☐☐

A ☐ cubes

B ☐ cubes

Circle the shorter: A B

3



A ☐☐☐☐☐☐☐



B ☐☐☐☐☐☐☐

A ☐ cubes

B ☐ cubes

Circle the shorter: A B

4



A ☐☐☐☐☐☐☐



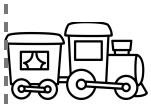
B ☐☐☐☐☐☐☐

A ☐ cubes

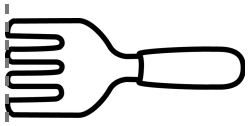
B ☐ cubes

Circle the shorter: A B

5



A ☐☐☐☐☐☐☐



B ☐☐☐☐☐☐☐

A ☐ cubes

B ☐ cubes

Circle the shorter: A B

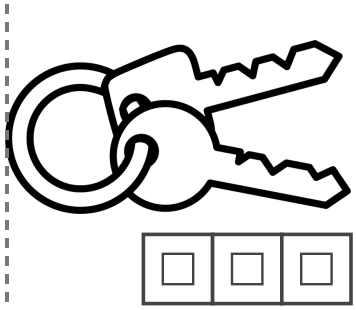
PREVIEW

My name _____ Date _____

Fix the Mistake

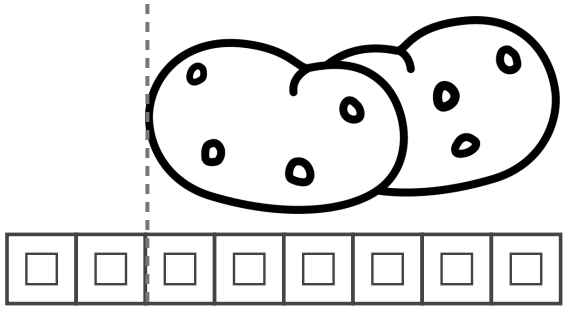
The cubes do not start at the line. Fix it.

1



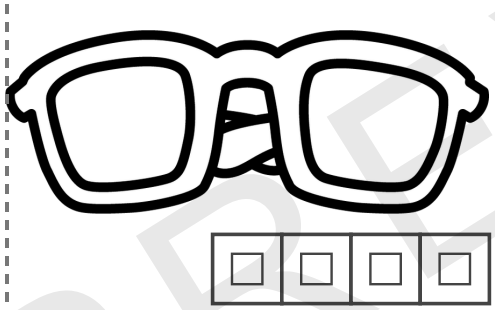
I counted 3 cubes.
The cubes start:
too late too early
Really: ____ cubes

2



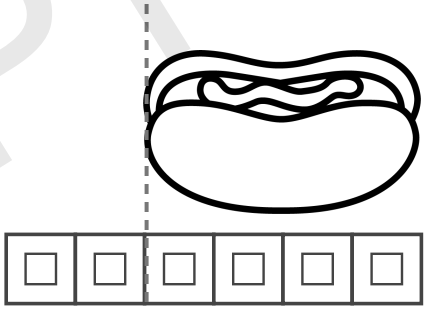
I counted 8 cubes.
The cubes start:
too late too early
Really: ____ cubes

3



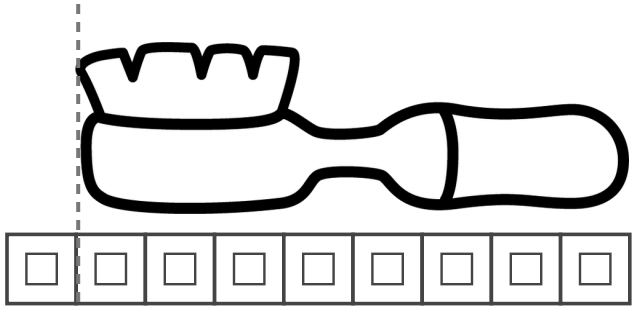
I counted 4 cubes.
The cubes start:
too late too early
Really: ____ cubes

4



I counted 6 cubes.
The cubes start:
too late too early
Really: ____ cubes

5



I counted 9 cubes.
The cubes start:
too late too early
Really: ____ cubes

PREVIEW

My name _____ Date _____

Order by Length

Cut the bars. Glue them in order, longest first.

1 longest

2

3

4

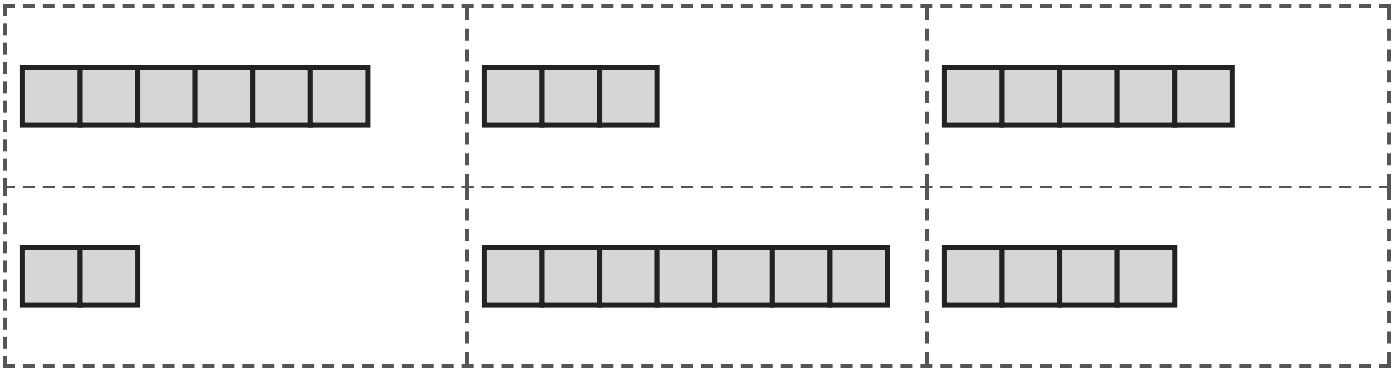
5

6 shortest

PREVIEW

The shortest bar is ☐ **The longest bar is** ☐

Cut on the dashed lines. Glue the bars in order.

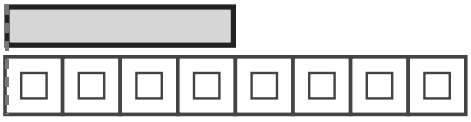


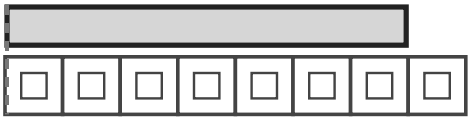
My name _____ Date _____

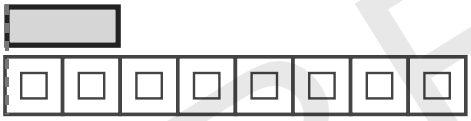
Skill Check

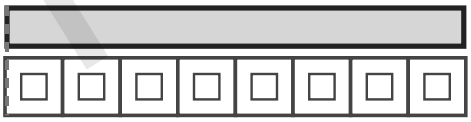
Count the cubes. Then find how many more.

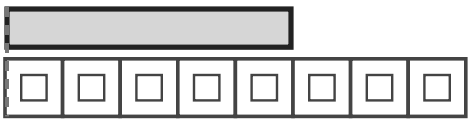
How many cubes long?

1 

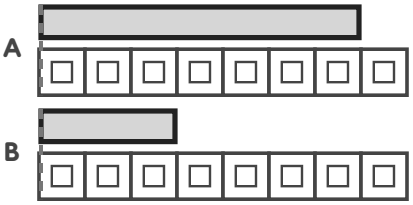
2 

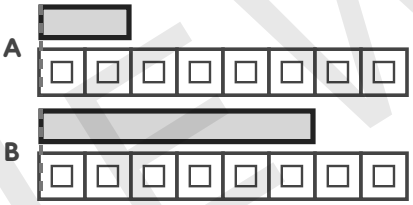
3 

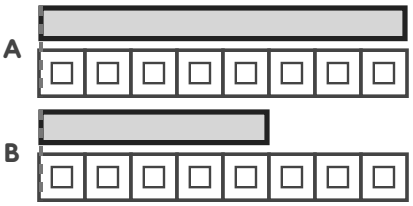
4 

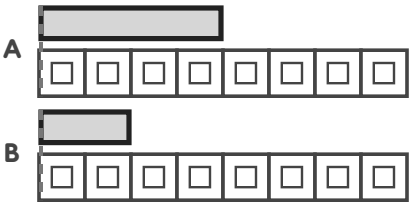
5 

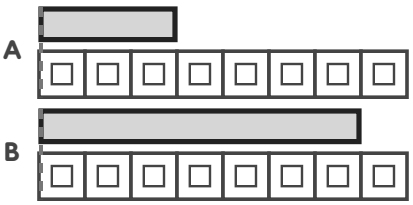
How many more cubes?

6 

7 

8 

9 

10 

PREVIEW

Answer Key: Pages 14 to 20

The cut pages list the bars in glue order, with the color and the length in cubes.

How many more (page 14): items 1 to 5

1 3 more **2** 6 more **3** 4 more **4** 3 more **5** 7 more

Fix the mistake (page 15): the right length; cubes start too late on item 1, 3 and too early on item 2, 4, 5

1 5 cubes **2** 6 cubes **3** 7 cubes **4** 4 cubes **5** 8 cubes

Order by length (pages 16 and 17): glue order, boxes 1 to 6

1 teal 2 , blue 3 , purple 4 , red 5 , green 6 , orange 7

2 blue 7 , purple 6 , teal 5 , orange 4 , red 3 , green 2

Page 16: shortest teal, longest orange. Page 17: shortest green, longest blue.

Measure fluency (page 19): cubes in each bar

1 3 **2** 5 **3** 2 **4** 7 **5** 4 **6** 8 **7** 6 **8** 3

9 5 **10** 7 **11** 2 **12** 8 **13** 4 **14** 6 **15** 3 **16** 5

Skill check (page 20): items 1 to 5 cubes long, 6 to 10 how many more

1 4 **2** 7 **3** 2 **4** 8 **5** 5

6 4 **7** 4 **8** 3 **9** 2 **10** 4

Create Your Own has no key: any bar that matches the number written is right.

PREVIEW