Unit 9 · Measuring Length Cheat Sheet

Unit 9 focus: comparing and ordering lengths, directly and with a third object

1 BIG IDEA

Line up the ends to compare. If you cannot move things, compare each to a third object.

2 IMPORTANT VOCABULARY

length	How long something is.	The pencil is 6 cubes long
longer	Has more length.	A bus is longer than a car
shorter	Has less length.	A crayon is shorter than a pencil
longest	Has the most length of three or more.	rope, ribbon, string: the rope is longest

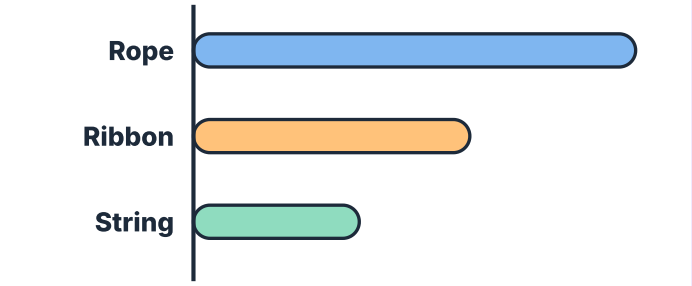
3 HOW IT WORKS

The bed is longer than the rope. The rope is longer than the desk. Which is longer, the bed or the desk?

Example: bed > rope > desk
Order: bed, rope, desk

Answer: the bed

4 VISUAL MODEL



Shortest to longest: string, ribbon, rope.

5 ★ REMEMBER THIS · WATCH OUT!

★ Remember this

- Start all objects at the same line.
- Order three: find the shortest, then the next, then the longest.

⚠ Watch out!

- **Ends not lined up:** an object can look longer when it is not
- **Mixing up longer and shorter:** say both: A is longer, B is shorter

6 TRY IT!

1. Ann's worm is longer than Ben's. Ben's is longer than Cal's. Longest?
   Answer: ʇuuɐ
2. Pen 7, crayon 4 cubes. How much longer?
   Answer: ɔnqǝs ε

Answers are printed upside down. Turn the page to check!

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More practice: measuring with same-size length units, end to end

1 BIG IDEA

Length is the number of same-size units that fit end to end with no gaps or overlaps.

2 IMPORTANT VOCABULARY

length unit	A same-size object used to measure.	cubes or paper clips
end to end	Units touch with no gaps and no overlaps.	cubes lined up in a row
length	How long something is.	The pencil is 6 cubes long
shortest	Has the least length of three or more.	the crayon is shortest

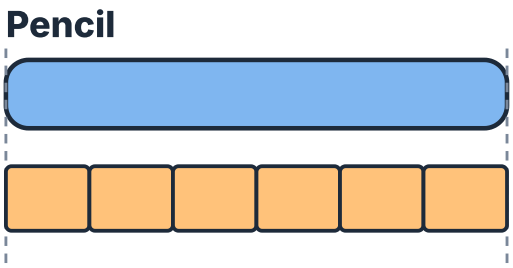
3 HOW IT WORKS

How long is the pencil?

Example: cubes under the pencil
Start at one end
Count the cubes: 6

Answer: 6 cubes

4 VISUAL MODEL



6 cubes, end to end: the pencil is 6 cubes long.

5 ★ REMEMBER THIS · WATCH OUT!

★ Remember this

- Every unit must be the same size.
- Smaller units: more of them. Bigger units: fewer.

⚠ Watch out!

- **Gaps:** make the count too small
- **Overlaps:** make the count too big

6 TRY IT!

1. 9 paper clips end to end. How long?
   Answer: 9 paper clips
2. Gaps: counted 5. Real length?
   Answer: more than 5

Answers are printed upside down. Turn the page to check!