

Length Difference Detectives

Measure in one unit, then find how much longer.

GRADE 2 • MA.2.M.1.2

MA.2.M.1.2 "Measure the lengths of two objects using the same unit and determine the difference between their measurements."

NAME _____

DATE _____

FIND THE DIFFERENCE

Measure both objects with the same unit. Subtract the shorter length from the longer length to find how much longer one object is.

WORKED EXAMPLE

A robot is 8 link cubes long. A drum is 3 link cubes long. How much longer is the robot?

1. Both lengths use link cubes.
2. Start with the longer length: 8 link cubes.
3. $8 - 3 = 5$.
4. The robot is 5 link cubes longer.

Answer: 5 link cubes

PRACTICE 5 problems

- 1** A toy car is 7 cubes long. A toy truck is 6 cubes long. How much longer is the toy car?

ANSWER _____

- 2** A red ribbon is 6 paper clips long. A blue ribbon is 4 paper clips long. How much longer is the red ribbon?

ANSWER _____

- 3** A book is 9 blocks long. A notebook is 7 blocks long. How much longer is the book?

ANSWER _____

- 4** A toy snake is 6 tiles long. A toy lizard is 2 tiles long. How much longer is the toy snake?

ANSWER _____

- 5** A pencil is 9 cubes long. A crayon is 7 cubes long. How much longer is the pencil?

ANSWER _____

APPLY IT Show your work

- Maya measures her jump rope with paper clips. Her jump rope is 9 paper clips long.
- 1** Her brother's jump rope is 7 paper clips long. How much longer is Maya's jump rope?

WORK SPACE

ANSWER _____

- 2** At a pet store, a hamster tunnel is 6 blocks long. A rabbit tunnel is 2 blocks long. How much longer is the hamster tunnel?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A yellow scarf is 9 cubes long. A green scarf is 7 cubes long. A purple scarf is 4 cubes long. Which two scarves have a difference of 2 cubes?

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A toy car is 7 cubes long. A toy truck is 6 cubes long. How much longer is the toy car?	1 cube
2	A red ribbon is 6 paper clips long. A blue ribbon is 4 paper clips long. How much longer is the red ribbon?	2 paper clips
3	A book is 9 blocks long. A notebook is 7 blocks long. How much longer is the book?	2 blocks
4	A toy snake is 6 tiles long. A toy lizard is 2 tiles long. How much longer is the toy snake?	4 tiles
5	A pencil is 9 cubes long. A crayon is 7 cubes long. How much longer is the pencil?	2 cubes

PART 2 • APPLY IT

1. **2 paper clips** Subtract the shorter jump rope length from the longer length. $9 - 7 = 2$ paper clips.
2. **4 blocks** Subtract the rabbit tunnel length from the hamster tunnel length. $6 - 2 = 4$ blocks.

CHALLENGE

The yellow scarf and the green scarf.

Accept answers that state the difference and the correct unit. Students may show a subtraction equation or count up from the shorter length to the longer length.