

Length Detectives

Add and compare inches.

GRADE 2 • MA.2.M.1

MA.2.M.1 "Measure the length of objects and solve problems involving length."

NAME _____

DATE _____

MEASURE AND SOLVE

Add lengths when you put objects together. Subtract to find how much longer one object is than another.

WORKED EXAMPLE

A paintbrush is 10 inches long.
A pencil is 6 inches long. How
much longer is the paintbrush?

1. Start with 10 inches.
2. Subtract 6 inches: $10 - 6 = 4$.
3. The paintbrush is 4 inches longer.

Answer: 4 inches

PRACTICE 4 problems

- 1** A toy train is 8 inches long. A track piece is 5 inches long. How much longer is the toy train?

ANSWER _____

- 2** Mia puts a 7-inch straw beside a 9-inch straw. What is their total length?

ANSWER _____

- 3** A puppy leash is 11 inches long. A cat leash is 2 inches long. How much longer is the puppy leash?

ANSWER _____

- 4** A paper strip is 14 inches long. Ben cuts off 3 inches. How long is the strip now?

ANSWER _____

APPLY IT Show your work

- 1** Ava has a 15-inch jump rope. Her brother has an 8-inch jump rope. How much longer is Ava's jump rope?

WORK SPACE

ANSWER _____

- 2** A hamster tunnel is 13 inches long. A second tunnel is 7 inches long. What is the total length of both tunnels?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Noah puts a 17-inch train track beside a 5-inch track. He says they make 21 inches. Is Noah correct? Explain.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A toy train is 8 inches long. A track piece is 5 inches long. How much longer is the toy train?	3 inches
2	Mia puts a 7-inch straw beside a 9-inch straw. What is their total length?	16 inches
3	A puppy leash is 11 inches long. A cat leash is 2 inches long. How much longer is the puppy leash?	9 inches
4	A paper strip is 14 inches long. Ben cuts off 3 inches. How long is the strip now?	11 inches

PART 2 • APPLY IT

1. **7 inches** Subtract the shorter length from the longer length. $15 - 8 = 7$.
2. **20 inches** Add the two tunnel lengths. $13 + 7 = 20$.

CHALLENGE

No. $17 + 5 = 22$, so the tracks make 22 inches.

Accept answers that include inches. For the challenge, accept any explanation showing that $17 + 5$ equals 22, not 21.