

Length Link-Up

Use adding and subtracting to compare lengths.

GRADE 2 • 2.MD.B

CCSS.Math.Content.2.MD.B "Relate addition and subtraction to length."

NAME _____

DATE _____

ADD OR SUBTRACT LENGTHS

Use addition when a length gets longer. Use subtraction to find how much shorter or longer one length is than another.

WORKED EXAMPLE

A ribbon is 9 cm long. A string is 4 cm shorter. How long is the string?

1. Start with 9 cm.
2. Take away 4 cm.
3. $9 - 4 = 5$.

Answer: 5 cm

PRACTICE 5 problems

- 1** A toy car is 8 cm long. A bus is 3 cm longer than the toy car. How long is the bus? ____ cm

ANSWER _____

- 2** A snake toy is 12 cm long. A lizard toy is 2 cm shorter. How long is the lizard toy? ____ cm

ANSWER _____

- 3** A paper strip is 6 cm long. Mia tapes a 7 cm strip to its end. How long are the strips together? ____ cm

ANSWER _____

- 4** A cat's yarn is 14 cm long. A puppy's yarn is 8 cm long. How much longer is the cat's yarn? ____ cm

ANSWER _____

- 5** A crayon is 15 cm long. It is cut so 3 cm is removed. How long is the crayon now? ____ cm

ANSWER _____

APPLY IT Show your work

- 1** Jae's race track is 16 cm long. He adds a 2 cm straight piece. How long is the track now?

WORK SPACE

ANSWER _____

- 2** One jump rope is 17 cm long. Another jump rope is 7 cm long. How much longer is the first jump rope?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A toy train track is 21 cm long. Its straight piece is 13 cm long. The curved piece makes up the rest. How long is the curved piece? Explain with an addition or subtraction equation.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A toy car is 8 cm long. A bus is 3 cm longer than the toy car. How long is the bus? ____ cm	11 cm
2	A snake toy is 12 cm long. A lizard toy is 2 cm shorter. How long is the lizard toy? ____ cm	10 cm
3	A paper strip is 6 cm long. Mia tapes a 7 cm strip to its end. How long are the strips together? ____ cm	13 cm
4	A cat's yarn is 14 cm long. A puppy's yarn is 8 cm long. How much longer is the cat's yarn? ____ cm	6 cm
5	A crayon is 15 cm long. It is cut so 3 cm is removed. How long is the crayon now? ____ cm	12 cm

PART 2 • APPLY IT

1. **18 cm** Add the new piece to the track. $16 + 2 = 18$.
2. **10 cm** Subtract the shorter length from the longer length. $17 - 7 = 10$.

CHALLENGE

8 cm; $21 - 13 = 8$ or $13 + 8 = 21$

Accept correct equations with or without the cm label. For comparison problems, accept subtraction or a related addition equation that shows the correct difference.