LESSON MAKER PRO

Length Difference Fun

Find how much longer one object is than another.

GRADE 2 · 2.MD.A.4

CCSS.Math.Content.2.MD.A.4 "Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit."

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 it is.

WORKED EXAMPLE

A red ribbon is 14 cm long. A blue ribbon is 9 cm long. How much longer is the red ribbon?

1. Start with the longer length: 14 cm.
2. Subtract the shorter length: 14 - 9 = 5.
3. The red ribbon is 5 cm longer.

Answer: 5 cm

PRACTICE 4 problems

1 A toy train is 12 inches long. A toy car is 8 inches long. How much longer is the train?

ANSWER _____

2 A pencil is 17 cm long. A crayon is 11 cm long. How much longer is the pencil?

ANSWER _____

3 A dog leash is 20 cm long. A cat leash is 13 cm long. How much longer is the dog leash?

ANSWER _____

4 A book is 16 cm long. A notebook is 10 cm long. How much longer is the book?

ANSWER _____

APPLY IT Show your work

1 Mia has an 18-inch jump rope. Her brother has a 15-inch jump rope. How much longer is Mia's jump rope?

WORK SPACE

ANSWER _____

2 A green paper strip is 19 cm long. A yellow paper strip is 12 cm long. How much longer is the green strip?

WORK SPACE

ANSWER _____

3 Measure and compare two real strips. An adult gives you strips A and B of different whole-centimetre lengths and a centimetre ruler. Measure each strip from 0 and record both lengths with cm. Subtract the shorter length from the longer length. Write which strip is longer and by how many centimetres. Show your measurements to the adult.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A red block tower is 25 cm tall. A blue tower is 19 cm tall. A green tower is 16 cm tall. Which length difference is greater: red and blue, or blue and green? How much greater is it?

WORK SPACE AND ANSWER

ANSWER KEY # Length Difference Fun

GRADE 2 · 2.MD.A.4

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A toy train is 12 inches long. A toy car is 8 inches long. How much longer is the train?	**4 inches**
2	A pencil is 17 cm long. A crayon is 11 cm long. How much longer is the pencil?	**6 cm**
3	A dog leash is 20 cm long. A cat leash is 13 cm long. How much longer is the dog leash?	**7 cm**
4	A book is 16 cm long. A notebook is 10 cm long. How much longer is the book?	**6 cm**

PART 2 · APPLY IT

1. **3 inches** Subtract 15 from 18. The difference is 3 inches.
2. **7 cm** Subtract 12 from 19. The difference is 7 cm.
3. **Results depend on the actual strips: longer length minus shorter length, expressed in cm.** Prepare two differently sized strips with whole-centimetre lengths below 30 cm. Check actual ruler placement and readings, both recorded lengths, the subtraction and named longer strip. Example: if A is 16 cm and B is 9 cm, A is 16 − 9 = 7 cm longer. Do not apply these example values unless the supplied strips match.

CHALLENGE

The red and blue difference is greater by 3 cm.

Accept correct subtraction shown with the matching unit. For the challenge, students may state that the differences are 6 cm and 3 cm, so the red and blue difference is 3 cm greater. Apply 3 requires actual measurement of both strips; the supplied-number comparisons do not replace it. Adult reading/recording support is allowed.