Art Box Measures

Measure and compare lengths in centimeters

P.2.5.2 "Compare and measure the length of solid objects using technology and mathematical representations. Analyze and communicate findings."

NAME _____ DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Underline how Maya used the digital caliper. Circle each number in the table so you can compare the lengths.

Which One Fits?

1. Maya wondered which item in her art box was longest. Her teacher helped her use a digital caliper. Maya placed each solid object between its two flat tips. She gently moved one tip until both tips touched the object. A number on the screen showed its length in centimeters.

2. Maya measured a pencil, a crayon, and a glue stick. She set each one straight between the tips. She checked that she was measuring from one end to the other end. Then she wrote the lengths in a table. The same unit for each object makes comparisons fair.

MAYA'S MEASUREMENTS

Object	Length (cm)
Pencil	12
Crayon	8
Glue stick	10

3. A table is a math way to show measurements. To compare two lengths, look at their numbers and the units. A bigger number of centimeters means a longer object. You can subtract the smaller number from the larger number to find how many centimeters longer it is.

2 ANSWER WITH EVIDENCE

Use the passage

1. Maya has a space for an object that is 10 cm long or less. Which two objects will fit? Use the table to explain.

2. How many centimeters longer is the pencil than the crayon? Show how you found out.

3. Maya says the glue stick is longer than the pencil. Is she right? Use the measurements to explain.

3 YOUR TURN

Your own words

Choose two solid objects near you. With your teacher, use a digital caliper to measure each in centimeters. Fill in the table, then write one sentence that compares their lengths.

OBJECT	LENGTH (CM)

ANSWER KEY

Art Box Measures

GRADE 2 · P.2.5.2

PART 1 · READ AND MARK

Underline how Maya used the digital caliper. Circle each number in the table so you can compare the lengths. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	Maya has a space for an object that is 10 cm long or less. Which two objects will fit? Use the table to explain.	**The crayon and glue stick will fit. They are 8 cm and 10 cm long, so neither is longer than 10 cm.**
2	How many centimeters longer is the pencil than the crayon? Show how you found out.	**The pencil is 4 cm longer. 12 − 8 = 4.**
3	Maya says the glue stick is longer than the pencil. Is she right? Use the measurements to explain.	**No. The glue stick is 10 cm long, and the pencil is 12 cm long.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

Marker | 14 cm
Eraser | 5 cm
The marker is 9 cm longer than the eraser.

Accept any two measured solid objects with lengths in centimeters and a comparison that matches the recorded measurements.