LESSON MAKER PRO

Measure and Count

Show measurements in a list, table, and dot plot.

GRADE 2 · MT.2.MD.9

MT.2.MD.9 "Generate measurement data and present the data in multiple ways. This standard should incorporate cultural context relating to Montana Indigenous Peoples and local communities."

NAME _____ DATE _____

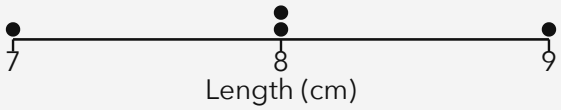
THE BIG IDEA

A dot plot shows measurements. Each dot stands for one item. You can show the same data in a table by counting the dots above each length.

WORKED EXAMPLE

A class measured paper stars. Make a count list for each length in the dot plot.

Paper Star Lengths



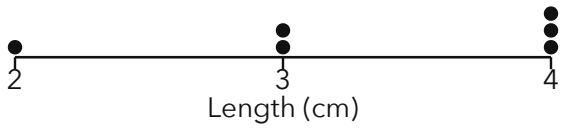
1. Count the dots above 7 cm: 1.
2. Count the dots above 8 cm: 2.
3. Count the dots above 9 cm: 1.

Answer: 7 cm: 1; 8 cm: 2; 9 cm: 1

PRACTICE 5 problems

1 The class measured paper boats. How many are 4 cm long?

Paper Boat Lengths



ANSWER _____

2 The table shows the lengths of toy cars. Write the lengths from shortest to longest.

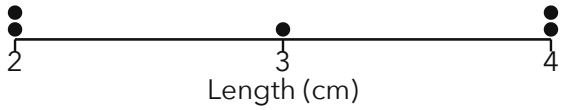
TOY CAR LENGTHS

Car	Length (cm)
Red	5
Blue	2
Green	6
Yellow	5

ANSWER _____

3 The class measured paper fish. How many are 2 cm long? How many are 4 cm long?

Paper Fish Lengths



ANSWER _____

4 The table shows the lengths of crayons. Which length appears most?

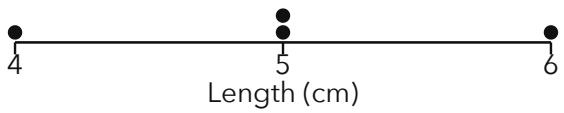
CRAYON LENGTHS

Crayon	Length (cm)
Red	3
Blue	5
Green	3
Yellow	6
Purple	3

ANSWER _____

5 The class measured paper kites. Write a count list for 4 cm, 5 cm, and 6 cm.

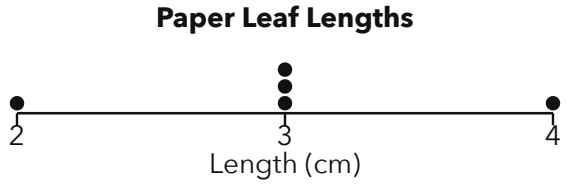
Paper Kite Lengths



ANSWER _____

APPLY IT Show your work

1 At a Blackfeet community center in Montana, children measured paper leaves. How many leaves are 3 cm long?



ANSWER _____

2 At a school on the Flathead Reservation, children measured pencil stubs. Write the lengths from shortest to longest.

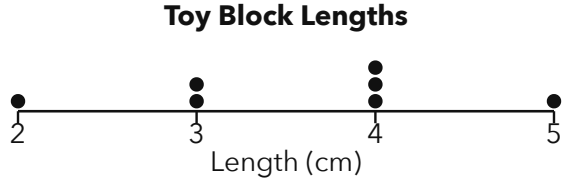
PENCIL STUB LENGTHS

Pencil	Length (cm)
Red	4
Blue	6
Green	2
Yellow	4

ANSWER _____

CHALLENGE One step up

The class measured toy blocks. Make a count list for each length in the dot plot. How can you tell that your list includes every block?



WORK SPACE AND ANSWER

ANSWER KEY

Measure and Count

GRADE 2 · MT.2.MD.9

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	The class measured paper boats. How many are 4 cm long?	**3 paper boats**
2	The table shows the lengths of toy cars. Write the lengths from shortest to longest.	**2 cm, 5 cm, 5 cm, 6 cm**
3	The class measured paper fish. How many are 2 cm long? How many are 4 cm long?	**2 cm: 2 fish; 4 cm: 2 fish**
4	The table shows the lengths of crayons. Which length appears most?	**3 cm**
5	The class measured paper kites. Write a count list for 4 cm, 5 cm, and 6 cm.	**4 cm: 1; 5 cm: 2; 6 cm: 1**

PART 2 · APPLY IT

1. **3 leaves** Count the three dots above 3 cm.
2. **2 cm, 4 cm, 4 cm, 6 cm** Read each length in the table, then put the four lengths in order.

CHALLENGE

2 cm: 1; 3 cm: 2; 4 cm: 3; 5 cm: 1. The counts add to 7, the number of dots.

Accept count lists written as tables. For the challenge, accept any explanation that matches each dot to one block and accounts for all 7 dots.