Count the Spaces

Measure lengths on numbered lines.

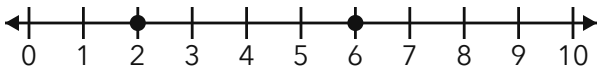
2.GM.2 "Understand length as a measurable attribute and explore capacity. Explain the relationship between the size of the unit of measurement and the number of units needed to measure the length of an object..."

NAME _____ DATE _____

4 SPACES

Count the spaces between the two dots, not the numbers you pass.

These dots are 4 spaces apart.



6 SPACES

Start at one dot and count each space until you reach the other dot.

These dots are 6 spaces apart.



1 SORT

8 items

Part 1 SORT: For each numbered line, circle FOUR or SIX to show how many spaces are between the dots.

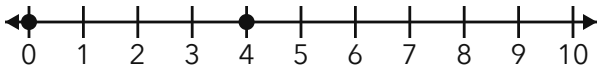
1. 

Figure 1

FOUR SIX

2. 

Figure 2

FOUR SIX

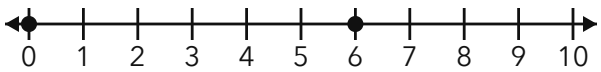
3. 

Figure 3

FOUR SIX

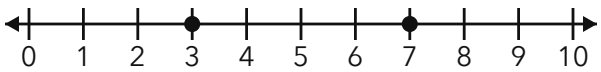
4. 

Figure 4

FOUR SIX

5.



Figure 5

FOUR **SIX**

6.



Figure 6

FOUR **SIX**

7.



Figure 7

FOUR **SIX**

8.



Figure 8

FOUR **SIX**

2 PROVE IT

Explain your thinking

Pick one figure from each group and tell how you counted the spaces.

ITEM # _____ **HOW I KNEW** _____

ITEM # _____ **HOW I KNEW** _____

3 MAKE YOUR OWN

One of each

Draw a new numbered line with dots 4 spaces apart and another with dots 6 spaces apart.

FOUR

SIX

CHALLENGE

Move both dots in your FOUR example one number to the left. Is the length still 4 spaces? Explain.

ANSWER KEY

Count the Spaces

GRADE 2 · 2.GM.2

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (numberline)	**FOUR**	There are 4 spaces from 0 to 4.
2	Figure 2 (numberline)	**FOUR**	There are 4 spaces from 1 to 5.
3	Figure 3 (numberline)	**SIX**	There are 6 spaces from 0 to 6.
4	Figure 4 (numberline)	**FOUR**	There are 4 spaces from 3 to 7.
5	Figure 5 (numberline)	**SIX**	There are 6 spaces from 1 to 7.
6	Figure 6 (numberline)	**SIX**	There are 6 spaces from 2 to 8.
7	Figure 7 (numberline)	**FOUR**	There are 4 spaces from 4 to 8.
8	Figure 8 (numberline)	**FOUR**	There are 4 spaces from 5 to 9.

PART 2 · PROVE IT

Task: Pick one figure from each group and tell how you counted the spaces.
Accept any explanation that names the deciding feature from the rule box for the chosen item.

PART 3 · MAKE YOUR OWN (SAMPLE ANSWERS)

- **FOUR**: Draw dots at 6 and 10 on a numbered line.
- **SIX**: Draw dots at 4 and 10 on a numbered line.

Challenge: Yes. Both dots move one number, so there are still 4 spaces between them.

Figures 1, 2, 4, 7, and 8 are FOUR. Figures 3, 5, and 6 are SIX. For Part 2, accept explanations that count the spaces between the dots rather than the numbered marks.