Name_____ Date_____ Period_____

LESSON 2-1 · SESSION 2 · PRACTICE · FORM A

Dot Plots and Shape

Learning target – I can build a dot plot and describe the shape of the data it shows. · 6.SP.B.4

REMEMBER

- A **dot plot** shows one dot for each data value. Repeated values **stack** up.
- The **peak** (tallest stack) is the most common value. Total dots = number of values.
- **Symmetric**: both sides match. **Skewed left/right**: the long tail points that way.

WORKED EXAMPLE

Six students read 3, 1, 2, 3, 3, 5 books. Make a dot plot and read it.

Step 1 Draw a line from 1 to 5.

Step 2 Stack dots: one at 1, one at 2, three at 3, one at 5.

Step 3 Check: 6 dots for 6 students.

Answer **Most common value 3; least 1; greatest 5**

WORDS **dot plot** *(diagrama de puntos)* · **symmetric** *(simétrico)* · **skewed** *(sesgado)* · **most common value** *(valor más común)*

PRACTICE

show your work · label units

1. Water Bottles. Mr. Lang asked 9 students how many bottles they filled on Friday: 2, 4, 1, 3, 2, 5, 2, 3, 2. Make a dot plot.

Hint *Cross off each value as you draw its dot.*

a. Most common value: _____

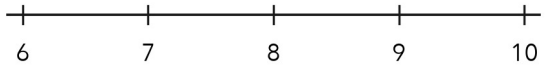
b. Shape: _____



Bottles Filled

2. Free Throws. Seven players made these free throws: 6, 9, 7, 6, 8, 6, 10. Make a dot plot. What is the most common value?

Most common_____



Free Throws Made

3. Read the Stacks. On a dot plot, 6 has 5 dots and 7 has 2 dots.

Hint *Each dot stands for one student.*

a. Students who chose 6: _____

b. Students in both stacks: _____

4. Count the Dots. A dot plot has stacks of 3, 4, 2 and 1 dots. How many data values does it show?

Hint *Add the stack heights.*

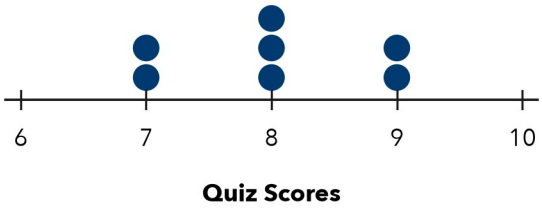
Show your work.

Values_____

5. Shape Claim. Jonas says this plot of quiz scores is symmetric. Is he right? Explain.

Hint *Compare the stacks on each side of the tallest stack.*

Right?_____



6. One More Reader. The plot shows pages read. Then one more student reads 18 pages. Find the new most common value. Does the greatest value change?

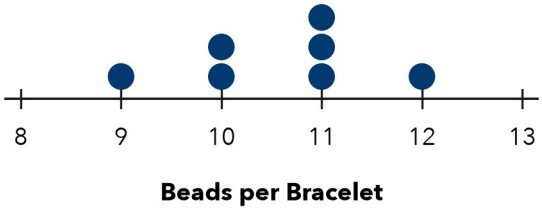
Hint *Add the new dot first, then compare stack heights.*

Most common_____



7. Bracelet Beads. The plot shows bead counts. Name the most common value and the shape.

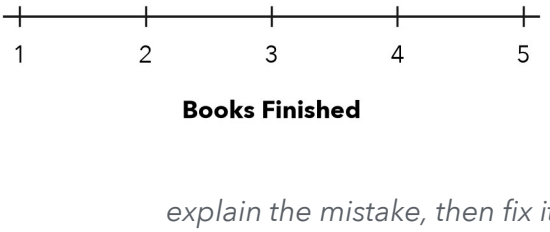
Value; shape_____



8. Library Books. Ten students finished these numbers of books: 1, 3, 2, 3, 4, 3, 2, 5, 3, 2. Make a dot plot. Name the most common value.

Hint *Tally each value before you draw.*

Most common_____



FIND THE ERROR

explain the mistake, then fix it

9. Marcus's Work. For the data 3, 3, 6, 9, Marcus drew one dot above each of 3, 6 and 9. Explain the mistake and tell what the plot should show.

_____

_____

_____

TEST PRACTICE

choose the best answer

10. On a dot plot, the height of a stack tells you –

A the greatest value

B how many times that value appears

C the number of values in all

D the shape

11. Data: 2, 2, 3, 5, 5, 5. Which stack is tallest?

A over 5 **B** over 2 **C** over 3 **D** over 15

SELF-CHECK CODE *find your answer · copy its letter into that problem's box · spell a math word*

7 A	12 K	6 T	4 Q	10 C	11 E	1 X	15 Z	2 S	3 D

#1a	#2	#3b	#4	#6	#7	#8

CHECK YOURSELF ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #___