Name_____ Date_____ Period_____

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

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. Ms. Rivera asked 9 students how many bottles they filled on Tuesday: 3, 1, 4, 3, 5, 2, 3, 4, 3. Make a dot plot.

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

a. Most common value: _____

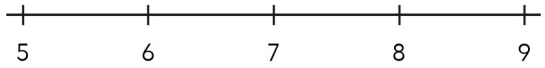
b. Shape: _____



Bottles Filled

2. Free Throws. Seven players made these free throws: 5, 8, 6, 5, 7, 5, 9. Make a dot plot. What is the most common value?

Most common_____



Free Throws Made

3. Read the Stacks. On a dot plot, 4 has 6 dots and 5 has 3 dots.

Hint *Each dot stands for one student.*

a. Students who chose 4: _____

b. Students in both stacks: _____

4. Count the Dots. A dot plot has stacks of 4, 2, 5 and 1 dots. How many data values does it show?

Hint *Add the stack heights.*

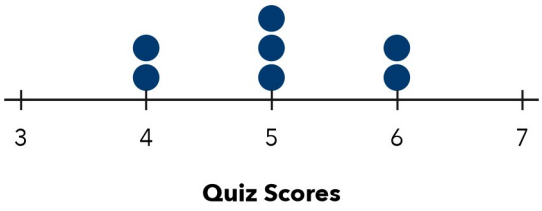
Show your work.

Values_____

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

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

Right?_____

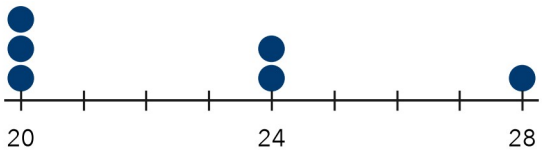


Quiz Scores

6. One More Reader. The plot shows pages read. Then one more student reads 28 pages. Find the new most common value. Does the greatest value change?

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

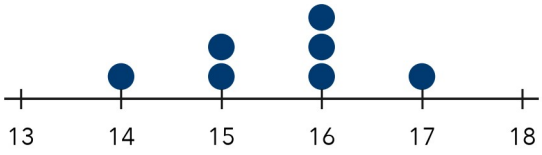
Most common_____



Pages Read

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

Value; shape_____

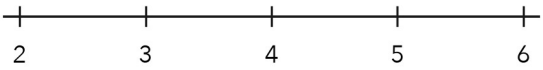


Beads per Bracelet

8. Library Books. Ten students finished these numbers of books: 2, 4, 3, 4, 5, 4, 3, 6, 4, 3. Make a dot plot. Name the most common value.

Hint *Tally each value before you draw.*

Most common_____



Books Finished

FIND THE ERROR

explain the mistake, then fix it

9. Eli's Work. For the data 2, 5, 5, 8, Eli drew one dot above each of 2, 5 and 8. Explain the mistake and tell what the plot should show.

_____

_____

_____

TEST PRACTICE

choose the best answer

10. A dot plot's tallest stack sits over 9. The value 9 is the –

A least value

B greatest value

C most common value

D number of dots

11. Which data set makes a symmetric dot plot?

A 1, 2, 2, 3 **B** 1, 1, 1, 4 **C** 1, 4, 4, 4 **D** 1, 1, 2, 5

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

24 Q	16 E	20 T	14 X	4 D	5 L	12 T	3 P	11 Z	9 O

#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 #___