Name_____ Date_____ Period_____

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

Describing Histogram Shape

Learning target – I can describe the shape of a histogram using its peak, spread, and balance. · 6.SP.B.4

REMEMBER

- The **peak** is the interval with the tallest bar. It shows where a typical value falls.
- **Symmetric**: both sides match. **Skewed right/left**: the long **tail** points that way.
- A bar shows how many values are in an interval, not one exact value.

WORKED EXAMPLE

Bars of 9, 5, 2, 1, 1 sit over 0–9, 10–19, 20–29, 30–39, 40–49. Describe the shape.

Step 1 The tallest bar is over 0–9, so 0–9 is the peak.

Step 2 The bars shrink toward the greater values: the tail is on the right.

Answer **Skewed right; most values are 0-9**

WORDS **peak** *(pico)* · **symmetric** *(simétrico)* · **skewed right** *(sesgado a la derecha)* · **skewed left** *(sesgado a la izquierda)*

PRACTICE

show your work · label units

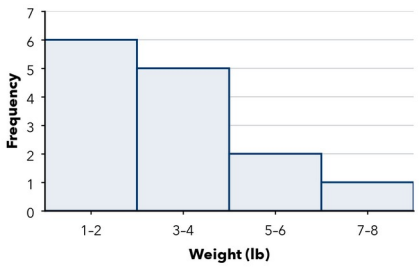
1. Tomato Plants. Heights (cm): 14, 22, 18, 26, 17, 21, 12, 20, 24. Find each frequency. Then name the peak and the shape.

Hint *Tally first, then find the tallest bar.*

a. 10–14: ____ **b.** 15–19: ____ **c.** 20–24: ____

d. 25–29: ____ **e.** Peak: ____ **f.** Shape: ____

2. Cabbage Weights. The histogram shows the weights of the cabbages in a garden.

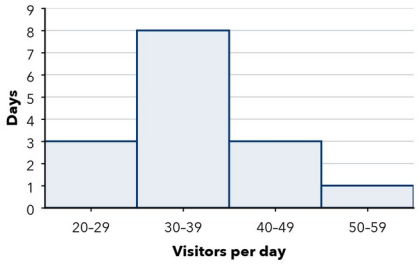


a. Peak interval: _____ lb

b. Cabbages in all: _____

c. Shape: _____

3. Museum Visitors. Each bar counts days. Which interval holds a typical day? Describe the shape.



Hint *The tallest bar shows a typical day.*

a. Typical day: _____

b. Shape: _____

4. Read the Bars. Bars of 2, 7, 3 sit over 60–69, 70–79, 80–89.

Hint *Add every bar height for the total.*

a. Peak: ____

b. Values in all: ____

5. Name the Shape. Bar heights, left to right:

a. 1, 4, 8, 4, 1 _____

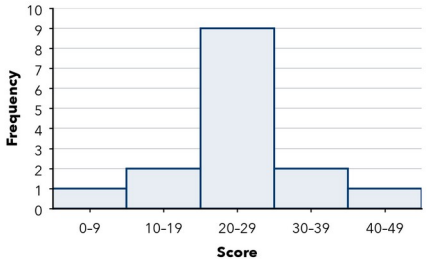
b. 9, 5, 2, 1, 1 _____

c. 1, 2, 4, 7 _____

6. Ramona's Claim. Ramona says this histogram is symmetric. Is she right? Explain.

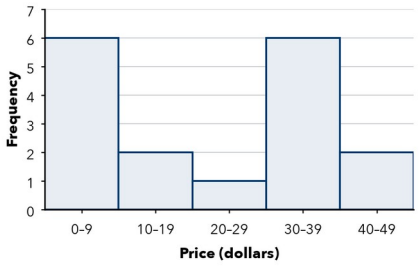
Hint *Match each bar left of the peak with one on the right.*

Right?_____



7. Ticket Prices. How many peaks does this histogram have? Explain why it is not symmetric.

Peaks_____



8. Display Choice. Tariq recorded 120 temperatures to the nearest tenth of a degree. Should he use a dot plot or a histogram? Explain.

_____

_____

FIND THE ERROR

explain the mistake, then fix it

9. Colette's Work. A histogram has bars of 2, 9, 2. Colette says, "The tallest bar means one value showed up 9 times." Explain the mistake.

_____

_____

_____

TEST PRACTICE

choose the best answer

10. Bars of height 8, 4, 2, 1 from left to right describe a shape that is –

A symmetric **B** skewed left **C** skewed right **D** flat

11. The peak of a histogram is the interval with the –

A shortest bar **B** tallest bar **C** widest bar **D** last bar

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

20–24 S	80–89 X	30–39 E	70–79 W	6 Q	14 K	7 Z	12 E	2 D

#1e	#2b	#3a	#4a	#4b	#7

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