



Displaying data in histograms

GRADE 6 MATH

Name _____

Date _____

Do this on your own — the worked example shows what to do. One skill: **histograms**.

WORKED EXAMPLE

Equal-width bins, bars that **touch**, height = how many values fall in that interval. Counts and shape are readable; individual values are not. Bin width is a choice that changes the picture without changing the data.

1. A histogram has bins with frequencies 5, 9, 10 and 4. How many values are in the data set?

FLUENCY

Show your thinking

Answer

2. For that histogram, what is the largest frequency?

FLUENCY

Show your thinking

Answer

3. For that histogram, what is the smallest frequency?

FLUENCY

Show your thinking

Answer

4. For that histogram, how many values fall in the first two bins?

APPLICATION

Show your thinking

Answer

5. For that histogram, how many values fall in the last two bins?

APPLICATION

Show your thinking

Answer

6. Compare your answers to the last two questions. What does the comparison tell you about the shape?

REASONING

Show your thinking

Answer

7. Explain one thing a dot plot can show you that a histogram cannot, and one thing a histogram handles better.

REASONING

Show your thinking

Answer

8. Two histograms of the same 28 values look completely different. Give a reason this can happen even though neither is wrong.

REASONING

Show your thinking

Answer