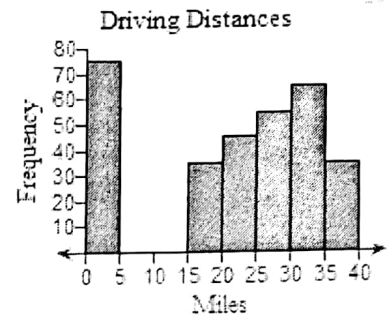


Histograms

- ① A survey asked 310 people how far they drive to work. The histogram shows the results of the survey. One bar in the histogram stands out. What might it tell you about the drives?

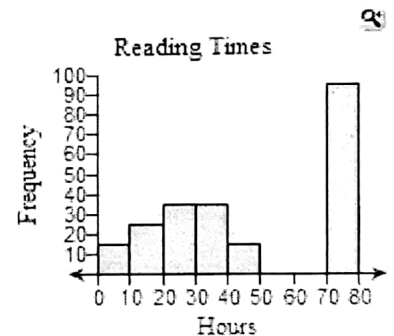


What does the bar that stands out tell you about the drives?

- A. The number of people that do not drive to work
 B. The number of people with a long drive to work
 C. The number of people with a moderate drive to work
 D. The number of people with a short drive to work

They drive 0-5 miles to work

- ② **Writing** The histogram shows how much time 220 people spend reading each month. One bar in the histogram stands out. What might it tell you about these times? Use pencil and paper. What could you say about the reading times if that particular bar were not there?



What does the bar that stands out tell you about the reading times?

- A. The number of people that read for a moderate time
 B. The number of people that do not read
 C. The number of people that read for a short time
 D. The number of people that read for a long time

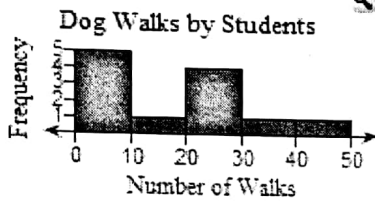
almost 100 people read for 70 hours or more.

- ③ **Reasoning** The table shows how many times each of ten students walked a dog last month. Make a histogram of the data. Use pencil and graph paper. Think about other histograms for this data that use increasingly wider intervals. Describe how the shapes of the histograms change.

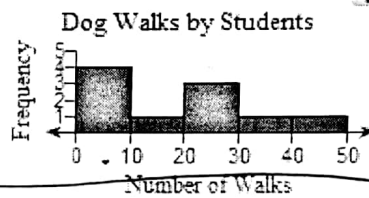
Dog Walks by Students									
1	6	42	4	32	16	24	28	23	4

Which histogram shows the data?

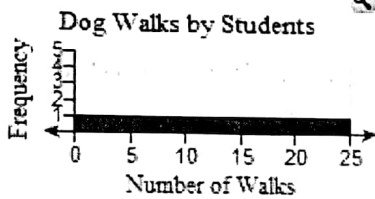
A



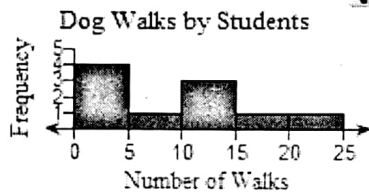
B



C

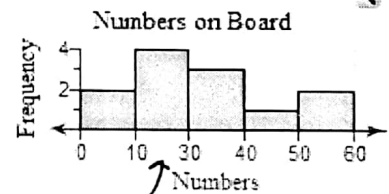


D



④

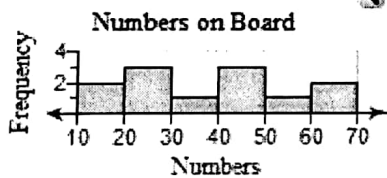
Error Analysis Priya's teacher writes the numbers 1, 7, 12, 13, 18, 29, 31, 34, 39, 49, 52, and 53 on the board. The teacher asks the class to make a histogram of the data with interval width 10. Priya makes the incorrect histogram of the data as shown. What is a correct histogram of the data? What is Priya's error?



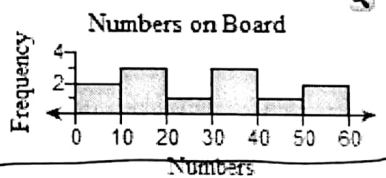
10-20

Which histogram shows the data?

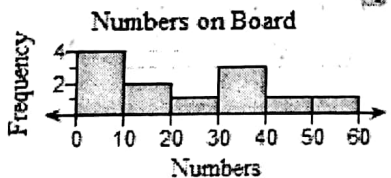
A



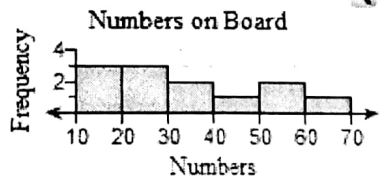
B



C



D



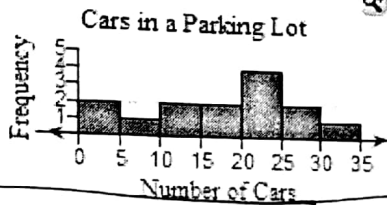
5

The table shows the number of cars in a parking lot at 6 P.M. each day for two weeks. Make a histogram of the data.

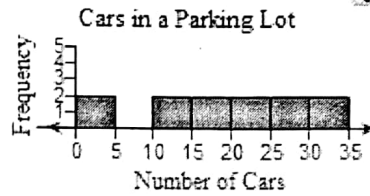
Cars in a Parking Lot						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
6	39	29	27	19	8	21
28	13	31	33	16	23	26

Which histogram shows the data?

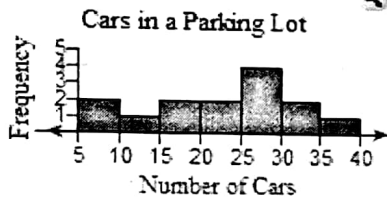
A.



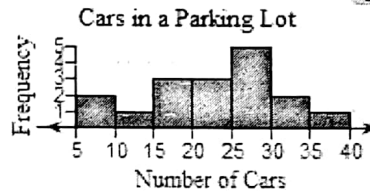
B.



C.



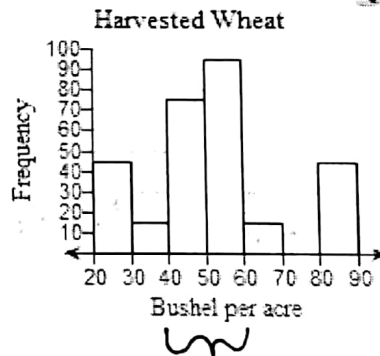
D.



6

A group of farmers recorded the number of bushels of wheat per acre they harvested. What do clusters of two side-by-side bars tell you?

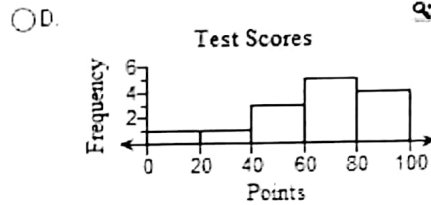
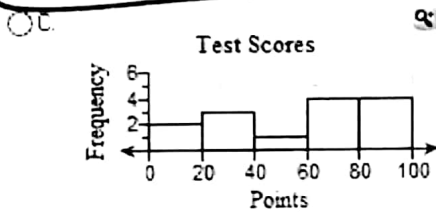
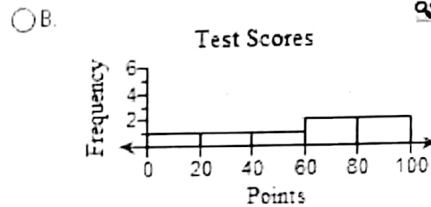
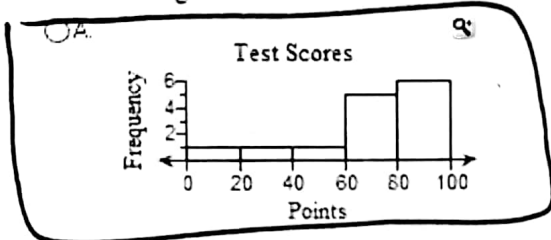
most farmers Harvested between 40-60 bushels per acre



① **Multiple Representations** The table shows the test scores for 14 students on a math test. Make a histogram of the data using an interval width of 20. ~~Use pencil and graph paper. Make at least two more histograms of the data using different interval widths. Explain which histogram best represents the data.~~

Test Scores						
91	81	88	69	18	71	63
74	79	32	59	97	89	92

Which histogram shows the data with interval width 20?



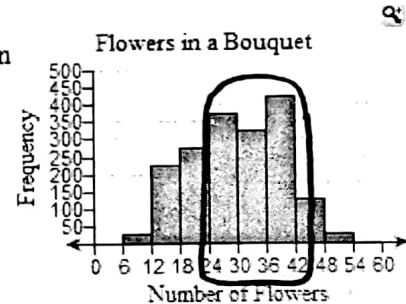
⑧ **Floral Arrangements** A flower shop tracks the number of flowers in each bouquet it sells. The histogram shows the number of flowers in the bouquets it sold last year.

Which bouquets were most popular? Were bouquets with 36 flowers among the most popular?

24-42 flowers
or
36-42

Yes

$$48 + 6 = 54 \text{ in.}$$



⑨ For a ride at the county fair, you must be at least 4 feet 6 inches tall. The histogram shows the heights of people who entered the line for this ride. How many people could not go on the ride?

$$3 + 3 + 11 + 21 + 5 + 7 + 18 = 68 \text{ people}$$

