

Name \_\_\_\_\_ Date \_\_\_\_\_

## Start Your Day the Right Way

### Graphically Representing Data

1. Mr. Follweiler finished grading the quizzes for one of his Algebra 1 classes. The table shown is the recorded grades of the class.

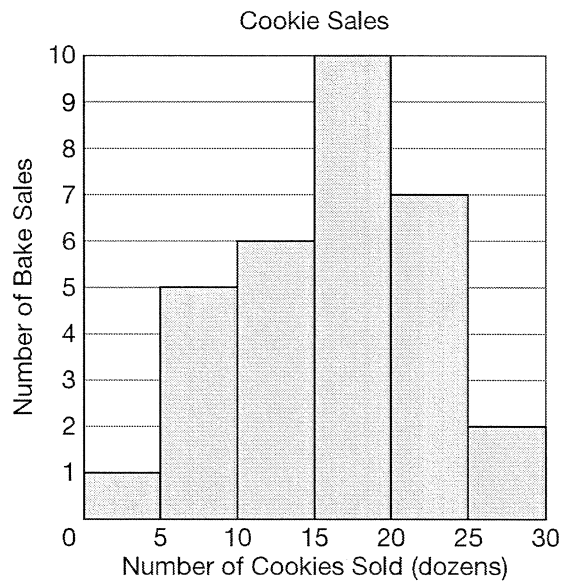
Student	Grade	Student	Grade
A	85	N	53
B	89	O	71
C	66	P	90
D	74	Q	65
E	77	R	55
F	72	S	98
G	64	T	53
H	55	U	62
I	61	V	55
J	52	W	64
K	81	X	62
L	61	Y	56
M	71	Z	87

- a. Mr. Follweiler is worried that his students may not have understood the material covered on the quiz. He would like to get a better idea of how the class did as a whole. Would you recommend that he make a dot plot, a box-and-whisker plot, or a histogram to display this data? Explain your reasoning.



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- f. Describe the distribution of the box-and-whisker plot. Explain what it means in terms of this problem situation.
  
- g. Are the students correct? Explain your reasoning.
  
- 2. The student government is gearing up for their next semi-annual bake sale. The graph shown displays the cookie sales at the last 31 bake sales.



- a. At how many bake sales did the student government sell 18 dozen cookies? Explain how you determined your answer.



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- b. At how many bake sales did the student government sell at least 20 dozen, but less than 25 dozen cookies? Explain how you determined your answer.
- c. Describe the distribution of the graph. Explain what this means in terms of the problem situation.
- d. How many dozen cookies would you recommend the student government bake for the upcoming bake sale? Explain your reasoning.