

CHAPTER 4 Project Recording Sheet
4 Collecting, Displaying, and Analyzing Data

Making Quality Products

The type of product being made often determines how many errors occur during the production process. To judge efficiency, you need to compare companies that produce the same kind of product.

| Frozen Pizza Companies | Errors per Sample (100 pizzas) | | | | | | | | | | | | |
|------------------------|-----------------------------------|---|----|---|----|----|----|---|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Taste of New York | 2 | 6 | 1 | 7 | 4 | 2 | 3 | 3 | 4 | 9 | 1 | 8 | 4 |
| Momma Mildred's | 7 | 6 | 12 | 7 | 15 | 14 | 13 | 5 | 18 | 15 | 7 | 16 | 11 |
| Speedworks | 4 | 8 | 8 | 6 | 4 | 9 | 7 | 3 | 5 | 8 | 7 | 9 | 3 |
| Pizza Pizzazz | 3 | 2 | 4 | 5 | 2 | 1 | 0 | 7 | 5 | 4 | 6 | 8 | 2 |

Calculate the mean, median, and mode for each company.

| Company | Mean | Median | Mode |
|-------------------|------|--------|------|
| Taste of New York | | | |
| Momma Mildred's | | | |
| Speedworks | | | |
| Pizza Pizzazz | | | |

Make a bar graph showing the average number of bad pizzas per hundred produced by each company.

Rank the companies from best to worst.

If each waste pizza costs the companies \$1.50 and each company produces 10,000 pizzas a year, how much does each lose in that time? How does that loss affect the price they must charge for a pizza?
