Date:_____

1.3 Critiquing Data Presentation

DNA Testing Increases Chinook Catch

Number of Fish (1000s)

250, 200, 150, 100, 50, 0

Quota
Catch

1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005

wire coding   Year   DNA testing.
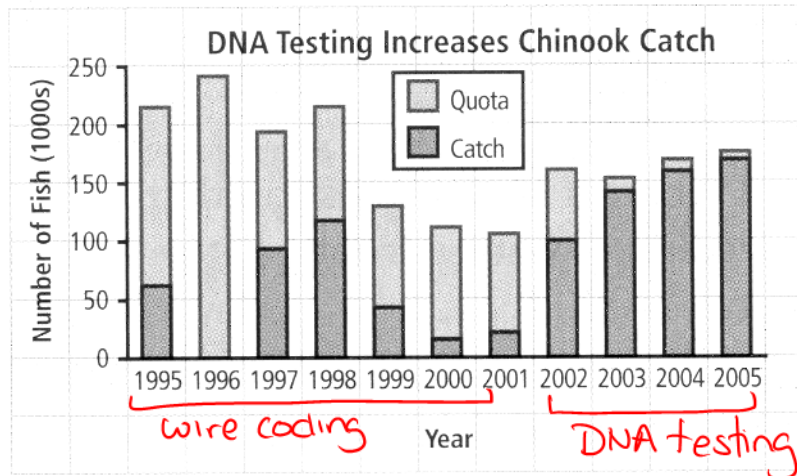
Year

This kind of graph is called a "stacked bar graph"

Why would this graph be useful to compare quota and catch in each year?

quota and catch are together on one graph.
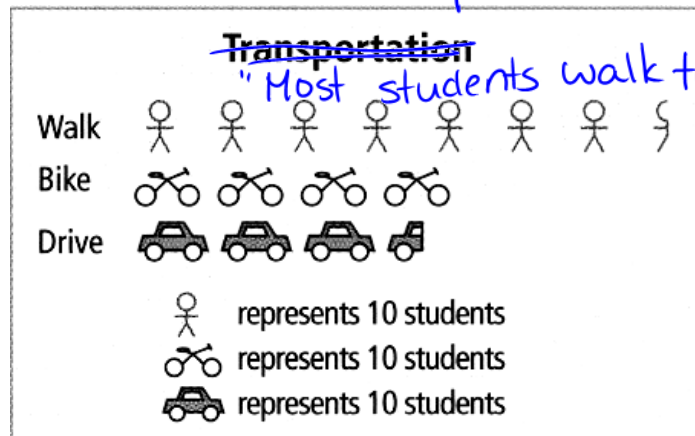
double line graph might have been useful.

Does this graph have any features that would make it misleading?

no ; no break in graph; all same width.

Does the graph support the statement that "DNA testing has increased the number of Chinook Salmon caught?" yes but

"DNA testing has helped fishermen catch close to their quota"

Does this pictograph effectively display the data about how students get to school?

~~Transportation~~
"Most students walk to school"

Walk
Bike
Drive

represents 10 students
represents 10 students
represents 10 students

**The graph is misleading because...** spacing and size of symbols is not equal.

The graph is informative because... the data is easy to read and could support our conclusion.

7

The organizers of a music concert are deciding between two performers as their headline attraction for a concert in December. The organizers want to use recording sales data to help make their decision. Consider the following graphs.

Recording Sales Over 6 Months

Recording Sales Over 6 Months
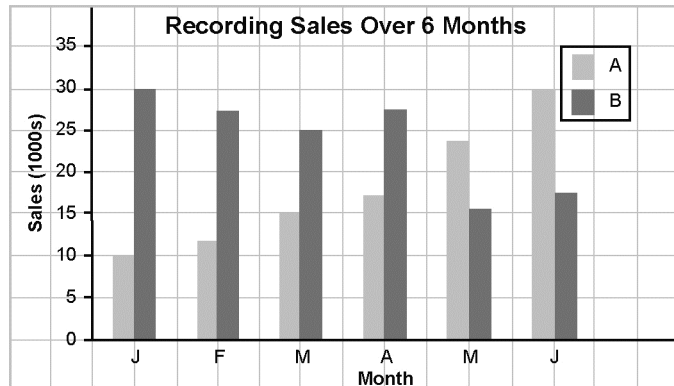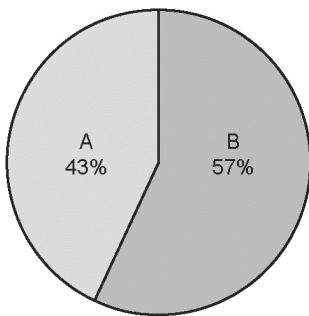
1. What information does the circle graph provide? Explain.

just shows total sales

2. What information does the double bar graph provide? Explain.

shows sales over time, allows us to compare months.

3. The organizers know they must attract a large crowd to cover expenses. Which performer would you select? Justify your answer.

A has increasing popularity and will be more popular in 6 months

Factors in critiquing a graph:

1. Graph Type: bar or circle or line graph. Is this type best for supporting your statement.

2. Graph Format: - avoid any misleading features.

3. Graph Usefulness graph should support the conclusion.

Test, Oct 7th

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