



Name: _____

Date: _____

Section: ☐ Mon/Wed ☐ Tue/Thu**1. (6 Points)**

A store summarizes customer purchase amounts using the following five-number summary:

Minimum	First Quartile (Q_1)	Median (Q_2)	Third Quartile (Q_3)	Maximum
\$5	\$20	\$35	\$50	\$200

A. Calculate the interquartile range. Show your calculation.

• Answer: _____

B. What does the interquartile range tell you about the spread of customer purchase amounts?

• Answer: _____

C. The largest purchase amount is corrected from \$200 to \$2,000. Would the mean or median change more? Explain.

• Answer: _____

2. (4 Points)

Two delivery companies both have a mean delivery time of 30 minutes. Company A has a standard deviation of 3 minutes, while Company B has a standard deviation of 10 minutes.

A. Which company has more consistent delivery times? Explain.

• Answer: _____

B. A customer concludes that every delivery from Company A is faster than every delivery from Company B. Do these summaries support that conclusion? Explain.

• Answer: _____

Score: _____ / 10