

Statistics – Standard Deviation, Normal (Bell) Curves, Line of Best Fit
Correlation/Causation

1. This table shows the scores of the first six games played in a professional basketball league.

Winning Score	110	98	91	108	109	116
Losing Score	101	88	84	96	77	114

Margin \rightarrow 9 10 7 12 32 2

The winning margin for each game is the difference between the winning score and the losing score. What is the standard deviation of the winning margins for these data?

- A. 3.8 points
- B. 8.3 points
- C. 9.5 points
- D. 12.0 points

first find winning margin by subtracting
then use calc to find standard dev.
in calc $\sigma_x = 9.469$

2. This frequency table shows the heights for Mrs. Quinn's students.

Height (in inches)	Frequency
42	1
43	2
44	4
45	5
46	4
47	2
48	1

What is the approximate standard deviation of these data?

- A. 1.0 inches
- B. 1.5 inches
- C. 2.5 inches
- D. 3.5 inches

use calc to find deviation
don't forget frequency

$$\sigma_x = 1.486$$