



4. A school's art club holds a bake sale on Fridays to raise money for art supplies. Here are the number of cookies they sold each week in the fall and in the spring:

|        |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|
| fall   | 20 | 26 | 25 | 24 | 29 | 20 | 19 | 19 | 24 | 24 |
| spring | 19 | 27 | 29 | 21 | 25 | 22 | 26 | 21 | 25 | 25 |

a. Find the mean number of cookies sold in the fall and in the spring.

b. The MAD for the fall data is 2.8 cookies. The MAD for the spring data is 2.6 cookies. Express the difference in means as a multiple of the larger MAD.

c. Based on this data, do you think that sales were generally higher in the spring than in the fall?

(From Unit 8, Lesson 11.)

5. A school is selling candles for a fundraiser. They keep 40% of the total sales as their commission, and they pay the rest to the candle company.

| price of candle     | number of candles sold |
|---------------------|------------------------|
| small candle: \$11  | 68                     |
| medium candle: \$18 | 45                     |
| large candle: \$25  | 21                     |

How much money must the school pay to the candle company?

(From Unit 4, Lesson 11.)