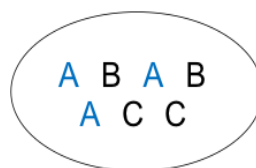
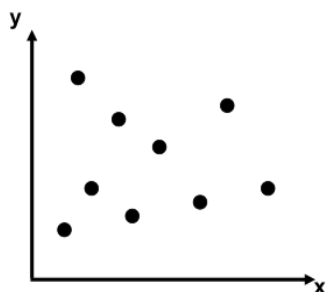
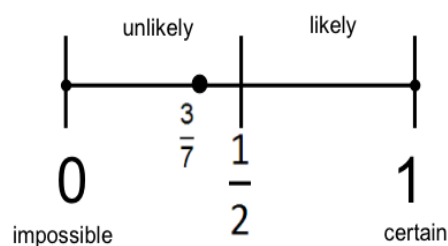


no pattern exists between
the x- and y-coordinates



$$P(A) = \frac{3}{7}$$



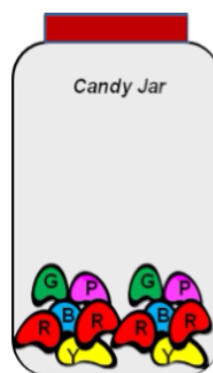
$$P(\text{green}) = \frac{3}{8}$$

$$P(\text{yellow}) = \frac{2}{8} = \frac{1}{4}$$

$$P(\text{green and yellow}) =$$

$$P(\text{green}) \cdot P(\text{yellow}) = \frac{3}{8} \cdot \frac{1}{4} = \frac{3}{32}$$

What is the probability of
getting a **red** jelly bean on
first pick and then without
replacing it, getting a
green jelly bean on the
second pick?



$$P(\text{red}) \cdot P(\text{green after red}) =$$

$$\frac{4}{12} \cdot \frac{2}{11} = \frac{8}{132} = \frac{2}{33}$$

If there are m ways for one event to occur and n ways for a second event to occur, then there are $m \cdot n$ ways for both events to occur.

Joe has two pairs of pants (blue and tan). He also has three shirts (red, green and white). List the possible outfits that Joe can make.

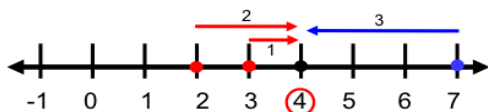
| PANTS | SHIRTS | POSSIBLE OUTCOMES |
|-------|--------|-------------------------------|
| blue | red | → blue pants with red shirt |
| | green | → blue pants with green shirt |
| | white | → blue pants with white shirt |
| tan | red | → tan pants with red shirt |
| | green | → tan pants with green shirt |
| | white | → tan pants with white shirt |

$2 \cdot 3$ or 6 possible outcomes

a measure of central tendency

2, 3, 4, 7

Balance Point



Numerical Average

$$\frac{2 + 3 + 4 + 7}{4} = \frac{16}{4} = 4$$

a measure of central tendency

6, 7, 8, 9, 9

8 = median

5, 6, 8, 9, 11, 12

8.5 = median

a measure of central tendency

| Data Sets | Mode |
|-----------------------------------|------|
| 2, 3, 3, 3, 5, 5, 9, 10 | 3 |
| 5.2, 5.4, 5.5, 5.6, 5.8, 5.9, 6.0 | none |
| 1, 1, 2, 5, 6, 7, 7, 9, 11, 12 | 1, 7 |

bimodal

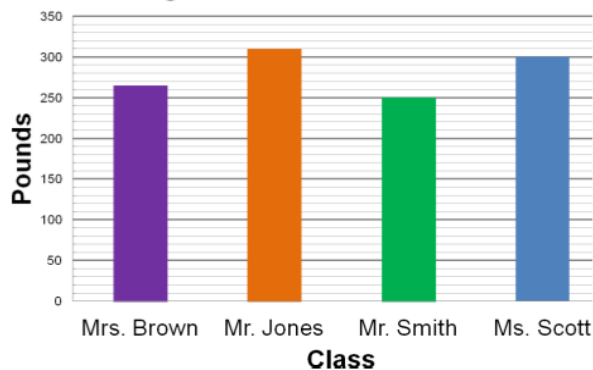
Data set

$2\frac{1}{2}$, 3, $3\frac{3}{4}$, $3\frac{7}{8}$, 5, $5\frac{1}{2}$, $9\frac{1}{6}$, $10\frac{4}{5}$, $15\frac{1}{2}$, 20

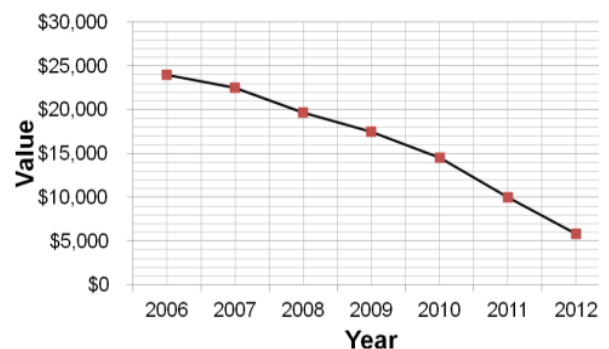
$$20 - 2\frac{1}{2} = 17\frac{1}{2}$$

$$\text{Range} = 17\frac{1}{2}$$

Pounds of Newspapers Recycled by Lexington Middle School Students



Value of Sarah's Car

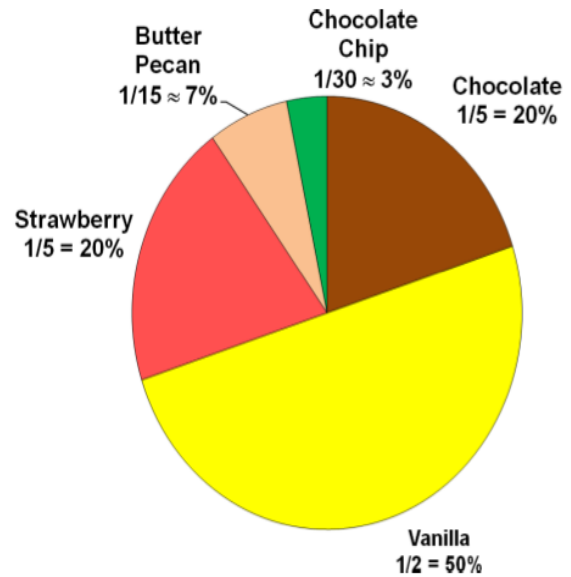


Math Test Scores
56, 65, 98, 82, 64, 71, 78, 86, 95, 91,
59, 70, 80, 92, 76, 82, 85, 91, 92, 73

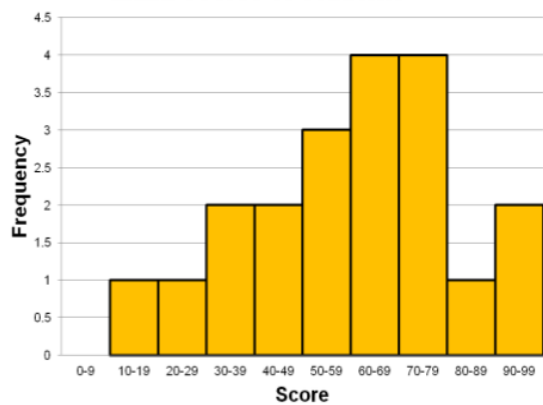
| STEM | LEAF |
|------|-------------|
| 5 | 6 9 |
| 6 | 4 5 |
| 7 | 0 1 3 6 8 |
| 8 | 0 2 2 5 6 |
| 9 | 1 1 2 2 5 8 |

Key: 5|6 means 56

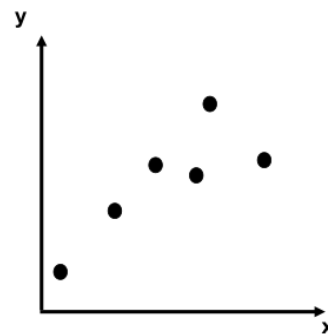
Favorite Ice Cream



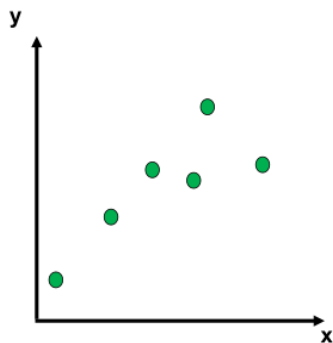
Exam Scores of Students



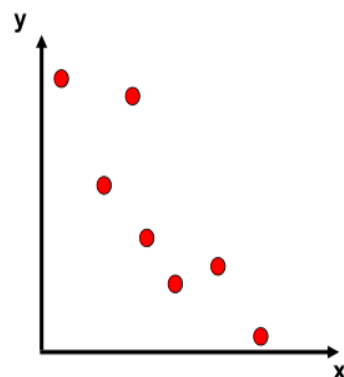
illustrates the relationship between two sets of data.



y-coordinates increase as
x-coordinates increase



y-coordinates decrease as
x-coordinates increase



y-coordinates remain about
the same as x-coordinates
increase

