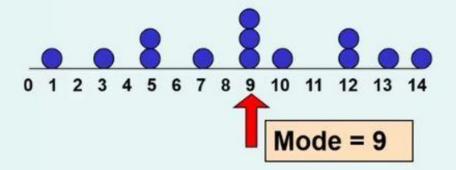
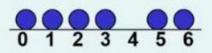
A statistical measure of central tendency

Measures of Central Tendency: The Mode

- Value that occurs most often
- There may be no mode
- There may be several modes





No Mode

The most frequently occurring score

Example: 1, 2, 2, 2, 3, 3, 4

Mode = 2

```
Example: 1, 2, 2, 3, 3, 4
```

Bimodal (two modes) = 2, 3

```
Example: 1, 2, 2, 3, 3, 4, 4
```

Multimodal (three or more modes) = 2, 3, 4

Measures of Central Tendency: Review Example

House Prices:

\$2,000,000 \$500,000 \$300,000 \$100,000

Sum \$3,000,000

• Mean: \$3

$$\overline{X} = \frac{\sum_{i=1}^{n} X_{i}}{n}$$

Median: middle value of ranked data

$$\frac{n+1}{2}$$

$$(5+1)/2 = 3^{rd}$$
 position = \$300,000

• Mode: most frequent value = \$100,000

Measures of Central Tendency: Review Example

House Prices:

\$2,000,000 \$500,000 \$300,000 \$150,000 \$130,000 \$120,000

Sum \$3,200,000

• Mean: \$3,200,000/6 $\overline{\chi} = \frac{\sum_{i=1}^{N}}{1}$

Median: middle value of ranked data

Mode: most frequent value
= N/A