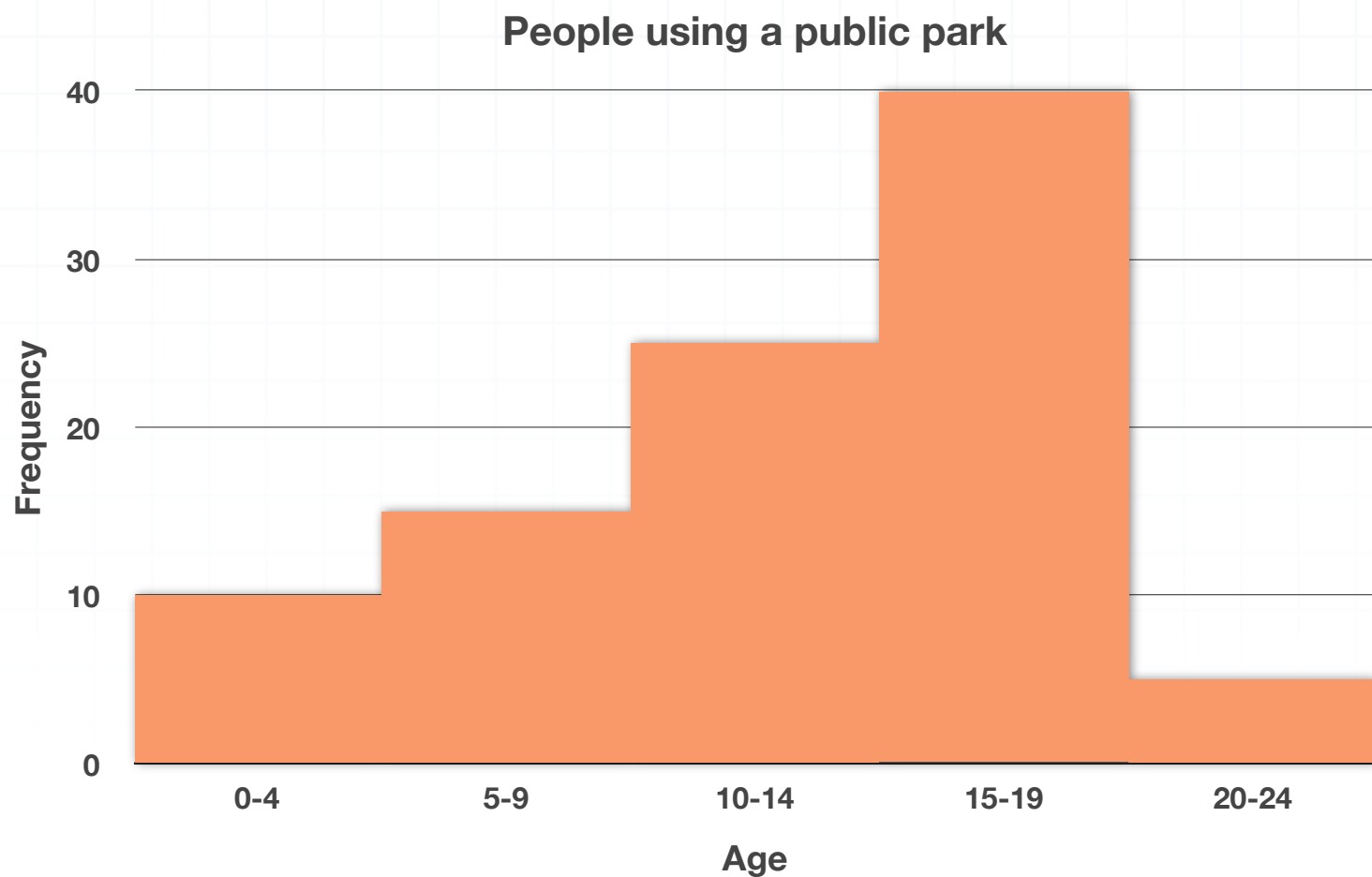


**Topic:** Histograms and stem-and-leaf plots

**Question:** What is the length of the buckets that are used in the histogram?

**Answer choices:**

- A 0 years
- B 5 years
- C 10 years
- D 25 years



**Solution: B**

The age groups are put into buckets of 5-unit intervals.



**Topic:** Histograms and stem-and-leaf plots

**Question:** Which data set would best be displayed in a histogram?

**Answer choices:**

- A The percentage of people who like a certain brand of cola.
- B A kindergarten class's favorite colors.
- C The way rainfall changes each month.
- D Town population by age.



**Solution: D**

Town population by age would best be displayed in a histogram. It would be useful to group age ranges together to create a graph of the data, as opposed to graphing each age individually.



**Topic:** Histograms and stem-and-leaf plots

**Question:** A shopkeeper counted the number of candies in each basket and recorded the results in the stem-and-leaf plot. How many baskets have more than 35 candies?

|   |      |
|---|------|
|   |      |
| 1 | 3, 5 |
| 2 | 1, 4 |
| 3 | 5    |
| 6 | 2, 6 |

$$1 | 3 = 13$$

**Answer choices:**

- A      2
- B      3
- C      6
- D      62



**Solution: A**

We want to know how many baskets had more than 35 pieces of candy. If you look at the stem-and-leaf plot, you can see that two baskets had more than 35 pieces of candy.

|   |      |
|---|------|
|   |      |
| 1 | 3, 5 |
| 2 | 1, 4 |
| 3 | 5    |
| 6 | 2, 6 |

One basket had 62 pieces, and one basket had 66 pieces, so there were only two baskets that had more than 35 pieces.

