**Topic**: Histograms and stem-and-leaf plots
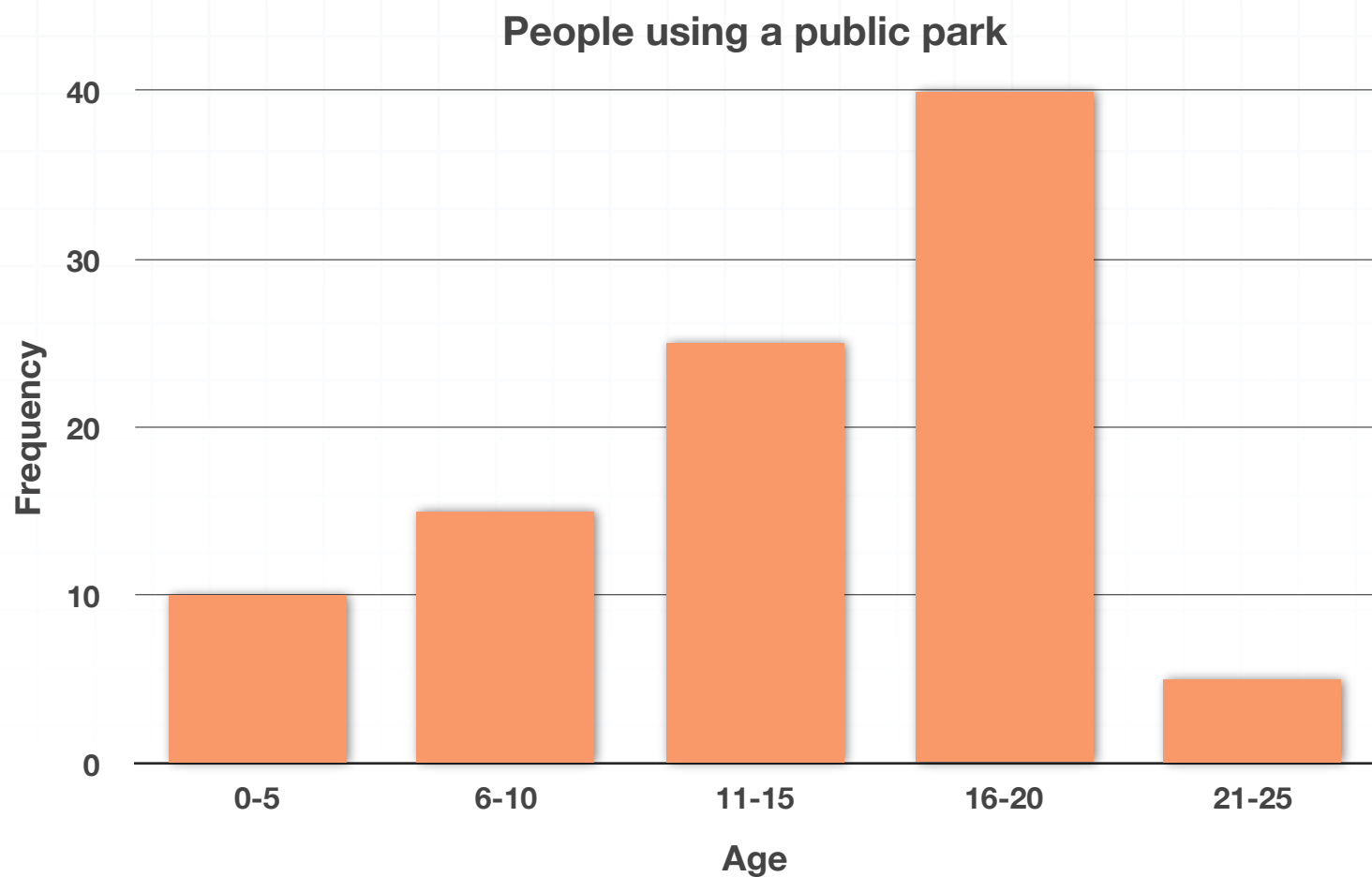
**Question**: What is the length of the buckets that are used in the histogram?



**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 |
| 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 |
| 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.