### Descriptive statistics

**STATISTICS**

09

**Grades of various groups**



The juniors of high school received the following grades in Math class.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Grade** | Class A | Class B | Class C | Class D |
| 0 | 0 | 1 | 0 | 0 |
| 1 | 0 | 0 | 1 | 0 |
| 2 | 2 | 1 | 3 | 2 |
| 3 | 1 | 4 | 3 | 3 |
| 4 | 3 | 0 | 4 | 3 |
| 5 | 6 | 3 | 2 | 5 |
| 6 | 0 | 0 | 0 | 2 |
| 7 | 0 | 2 | 3 | 3 |
| 8 | 1 | 3 | 6 | 2 |
| 9 | 0 | 1 | 1 | 2 |
| 10 | 0 | 0 | 0 | 0 |

Calculate the average grade and the standard deviation of each class.



**1**

Graph the data.



**2**

Compare the results and write a report where you indicate:



**3**

1. Which class took the most grades?
2. Which class had the greatest spread in grades?
3. Which class had a distribution that resembles a bell shaped curve?

What is the average grade of all juniors in school? Can you calculate it by adding the four obtained means and dividing by four? Why?



**4**

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