

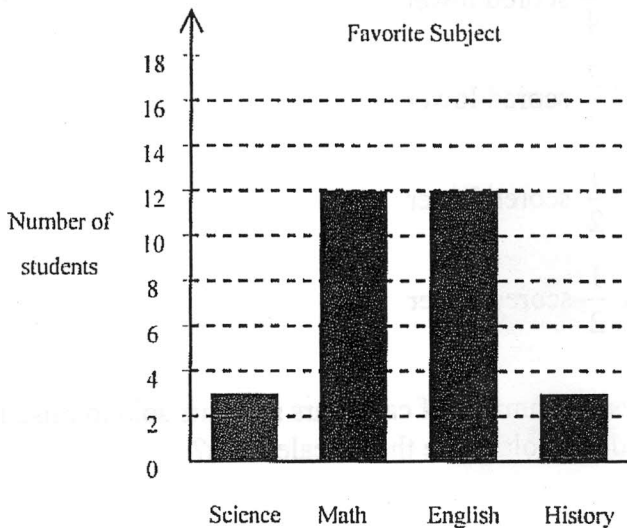
Algebra 1
Final Review
Chapters 1-6

1. Find the minimum, maximum, and range of the data.

13 7 26 5 16 14 16 19
6 19 5 13 2 20 11 20

- [A] minimum: 2 [B] minimum: 5 [C] minimum: 2 [D] minimum: 5
maximum: 20 maximum: 20 maximum: 26 maximum: 26
range: 15 range: 15 range: 24 range: 21

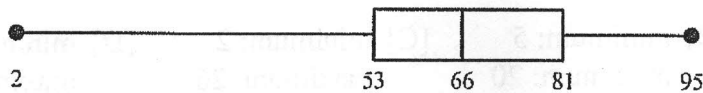
2. According to this graph, how many students said science was their favorite subject?



- [A] 4 students [B] 2 students [C] 6 students [D] 3 students
3. The number of patients treated at Dr. Jason's dentist office each day was recorded for nine days: 16, 7, 10, 18, 19, 8, 9, 22, 8. Using the given data, find the mean, median, and mode for this sample.

- [A] mean: 10, median: 13, mode: 8 [B] mean: 27, median: 13, mode: 8
[C] mean: 13, median: 10, mode: 8 [D] mean: 8, median: 10, mode: 13

4. Find the five-number summary for the data.
 {212, 203, 215, 202, 217, 223, 222, 228, 215, 200, 227, 227, 208, 197, 202, 232}
- [A] 197, 202, 215, 223, 228 [B] 197, 202, 212, 223, 232
 [C] 197, 202.5, 215, 225, 232 [D] 200, 202, 215, 227, 228
5. Mrs. Myers drew a box plot to represent her students' scores on a mid-term test.



Marty earned 66 on the test. Describe how the scores of Marty's classmates compared to Marty's score.

- [A] about $\frac{3}{4}$ scored higher; about $\frac{1}{4}$ scored lower
 [B] about $\frac{1}{4}$ scored higher; about $\frac{3}{4}$ scored lower
 [C] about $\frac{3}{4}$ scored higher; about $\frac{1}{2}$ scored lower
 [D] about $\frac{1}{2}$ scored higher; about $\frac{1}{2}$ scored lower
6. The stem-and-leaf plot below shows the number of calendars students sold to raise money for the school band. How many students sold more than 8 calendars?

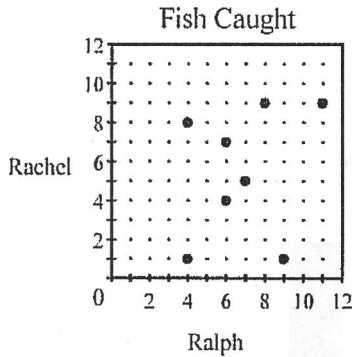
Number of Calendars Sold

0	3 6 8 9
1	0 1 7 8 9
2	0 6

key: 1 | 0 represents 10

- [A] 6 [B] 7 [C] 9 [D] 8

7. The scatter plot below shows the results of eight fishing trips made by Ralph and Rachel. On how many trips did Rachel catch more fish than Ralph?



- [A] 4 [B] 6 [C] 3 [D] 5

8. Danica wants to buy a bicycle that costs \$150.00. Her parents say Danica must raise 70% of the money herself. How much money must Danica raise?

- [A] \$108 [B] \$175 [C] \$105 [D] \$178

9. A Lights-A-Lot quality inspector examines a sample of 75 strings of lights and finds that 5 are defective. What is the best prediction of the number of defective strings of lights in a delivery of 450 strings of lights?

- [A] 30 [B] 5 [C] 445 [D] 75

10. Game wardens use experiments to help determine the number of fish in a lake. Suppose 60 fish are caught, tagged, and released back into the lake. Two weeks later 80 fish are caught, 3 of which are found to have tags. Using this information, estimate the number of fish in the lake.

- [A] 137 [B] 4800 [C] 57 [D] 1600

11. If 50 is decreased to 30, what is the percent decrease?

- [A] 20% [B] 4% [C] 60% [D] 40%

12. The table below represents a family's monthly budget of \$1,600.

Food	\$250.00
Housing	\$750.00
Other	\$600.00

If you are making a circle graph to display this information, what would be the measure of the central angle (to the nearest degree) for the section representing Housing?

- [A] 169° [B] 56° [C] 135° [D] 45°

