

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### SOL 4.14 ASSESSMENT

Directions: Solve for each of the problems.

1. A book club has 5 fourth-grade girls, 4 third-grade boys, 8 third-grade girls, and 3 fourth-grade boys. Which table correctly shows this information?

a.

Students in Book Club

|       | 3 <sup>rd</sup> Grade | 4 <sup>th</sup> Grade |
|-------|-----------------------|-----------------------|
| Boys  | 4                     | 3                     |
| Girls | 8                     | 5                     |

b.

Students in Book Club

|       | 3 <sup>rd</sup> Grade | 4 <sup>th</sup> Grade |
|-------|-----------------------|-----------------------|
| Boys  | 3                     | 4                     |
| Girls | 5                     | 8                     |

c.

Students in Book Club

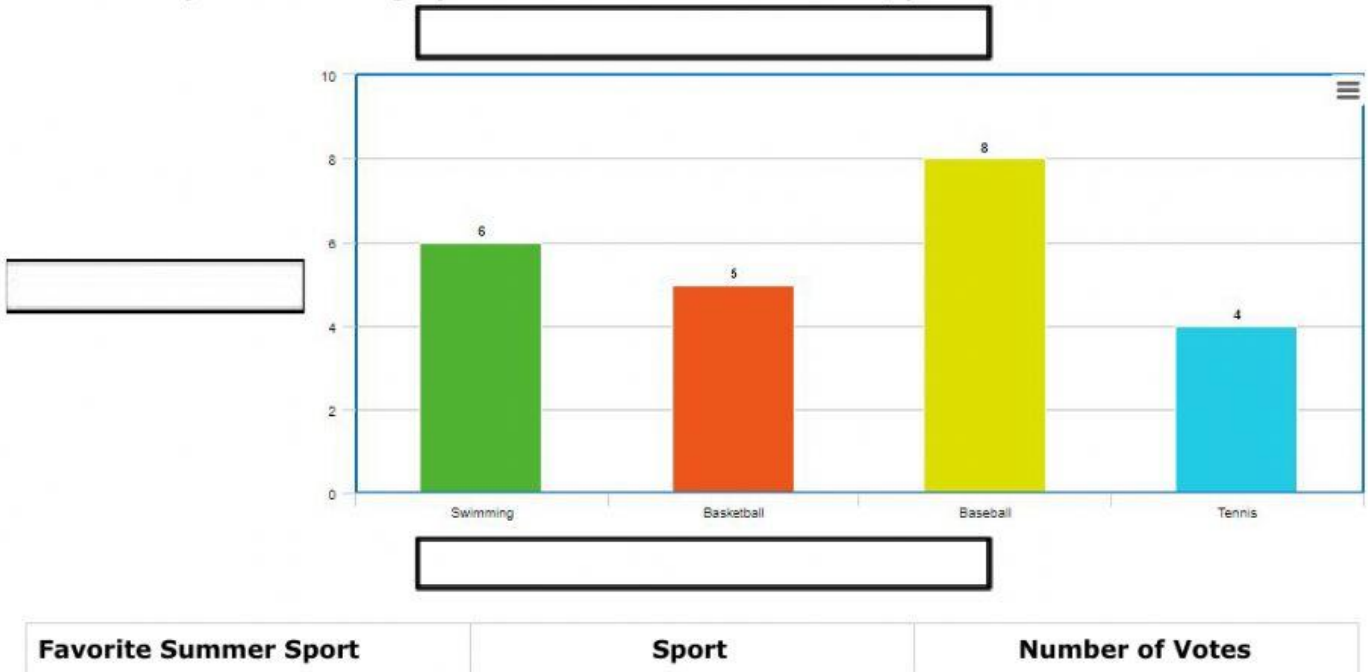
|       | 3 <sup>rd</sup> Grade | 4 <sup>th</sup> Grade |
|-------|-----------------------|-----------------------|
| Boys  | 5                     | 4                     |
| Girls | 8                     | 3                     |

d.

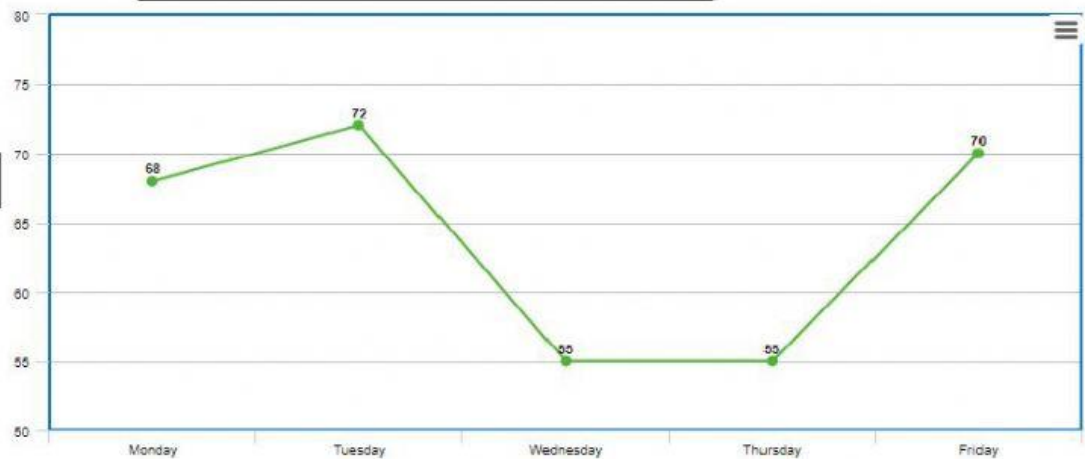
Students in Book Club

|       | 3 <sup>rd</sup> Grade | 4 <sup>th</sup> Grade |
|-------|-----------------------|-----------------------|
| Boys  | 4                     | 8                     |
| Girls | 3                     | 5                     |

2. Correctly label the bar graph below with the correct x-axis, y-axis, and title.



3. Correctly label the line graph below with the correct x-axis, y-axis, and title.



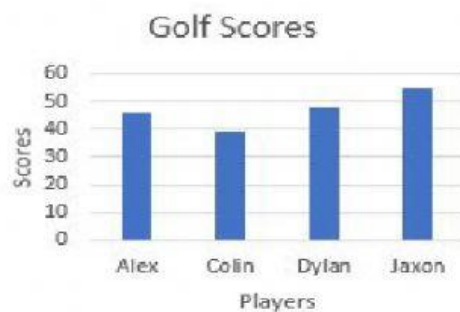
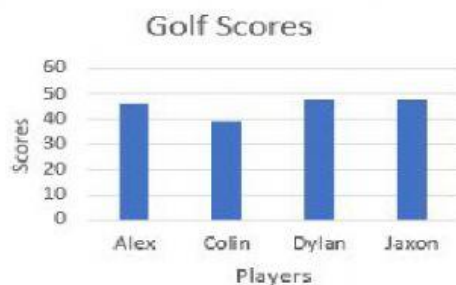
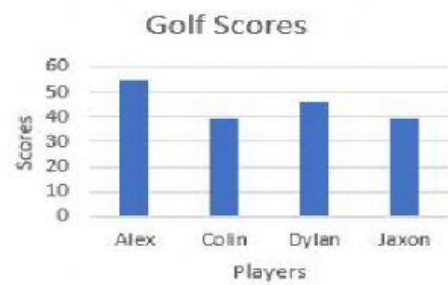
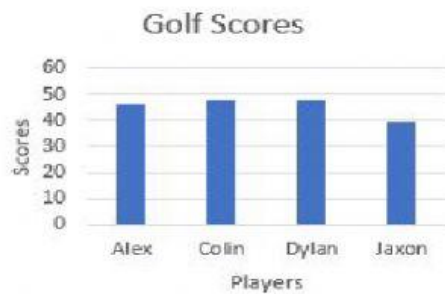
Temperature Change

Days of the Week

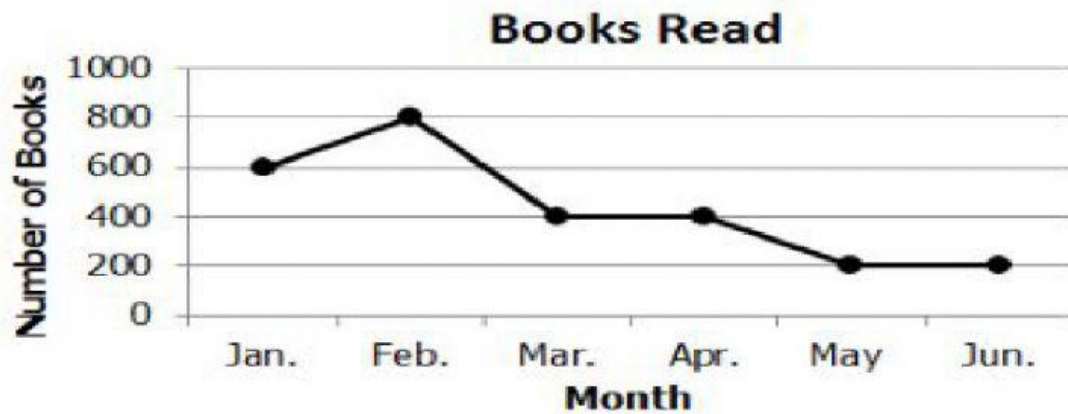
Daily Temperature

4. Choose the bar graph that matches the data chart correctly.

| Golf Scores |    |
|-------------|----|
| Alex        | 46 |
| Colin       | 48 |
| Dylan       | 48 |
| Jaxon       | 39 |



For questions 5 and 6, use the graph below to answer the questions.



5. According to the information in the graph, between which two months was there the biggest decrease in books read?

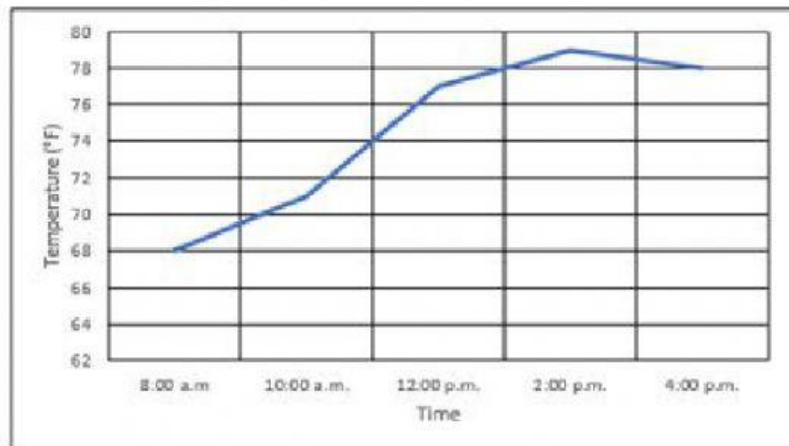
|                    |                         |
|--------------------|-------------------------|
| a. March and April | b. January and February |
| c. May and June    | d. February and March   |

6. The graph above shows the number of books read by the 6<sup>th</sup> grade class for a six-month period. Which statement is NOT true about the books read?

|                                                                |
|----------------------------------------------------------------|
| a. May and June combined were not as many as February.         |
| b. More books were read in March than June.                    |
| c. Students read more books in January than February.          |
| d. The books read in February were double those read in April. |

For questions 7 and 8, use the chart and graph below to answer the questions.

| Time       | Temperature (°F) |
|------------|------------------|
| 8:00 a.m.  | 68               |
| 10:00 a.m. | 71               |
| 12:00 p.m. | 77               |
| 2:00 p.m.  | 79               |
| 4:00 p.m.  | 78               |



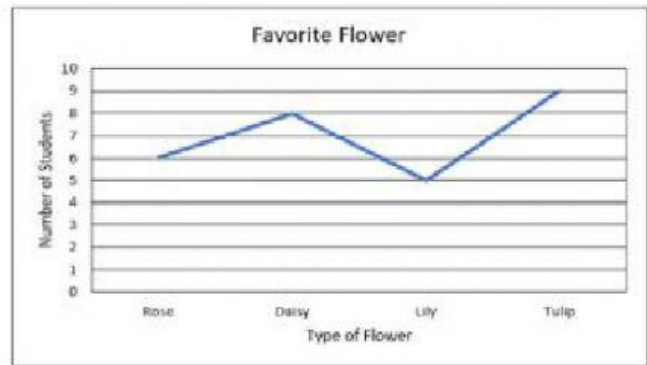
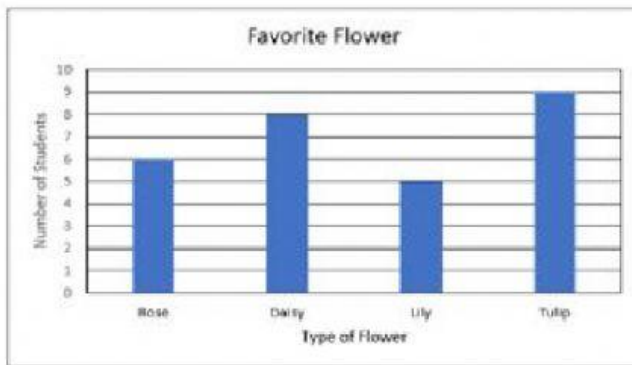
**7. Which sentence is true?**

- a. It is easier to find the temperature at 11:00 a.m. on the line graph than in the table.
- b. It is easier to find the temperature at 11:00 a.m. in the table than on the line graph.
- c. The line graph does not have all of the information from the table.
- d. The table has incorrect information that is not on the line graph.

**8. What can you infer the temperature would be at 6:00 p.m.?**

- a. The temperature will go up.
- b. The temperature will go down.
- c. The temperature will stay the same.
- d. The temperature cannot be determined based on the graph.

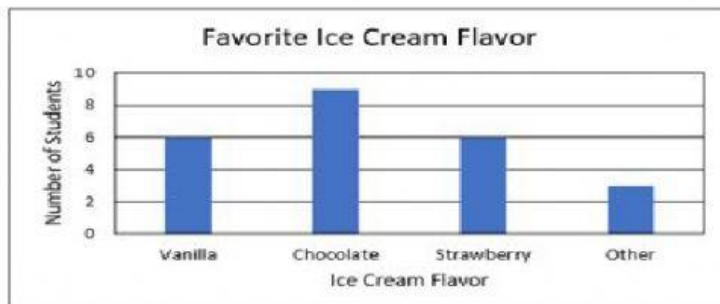
**9. Michael asked students to vote for their favorite flower. He made two graphs to show the votes.**



**Which sentence is true?**

- a. The line graph better shows the data because it helps compare increasing and decreasing flower types.
- b. The bar graph better shows the votes because it shows how the votes change over time.
- c. The line graph better shows the votes because it shows how the votes change over time.
- d. The bar graph better shows the votes because it helps compare the number of students for each flower type.

**10. The bar graph and pictograph both show students' favorite ice cream flavor.**



**Compare the bar graph and pictograph. Which sentence is true?**

- a. The bar graph helps to compare how the votes changed over time.
- b. The bar graph uses pictures to represent the number of votes for favorite flavors of ice cream.
- c. The pictograph uses pictures to represent the number of votes for favorite flavors of ice cream.
- d. The pictograph helps to compare how the votes changed over time.