1. Chelsea records the number of seeds in each of her apples. She uses one X to represent each apple.

					X	X			
				X	X	X			
				X	X	X			
	X	X	X	X	X	X		X
X	X	X	X	X	X	X	X	X
Seeds	6	7	8	9	10	11	12	13	14

Which statement about Chelsea's data is true?

A   The median number of seeds is 10.

B   Most apples have fewer than 10 seeds.

C   The range of number of seeds is 9.

D   Most apples have more than 10 seeds.

2.   Janice scored points in the first five basketball games she played.

Game 1: 23 points

Game 2: 14 points
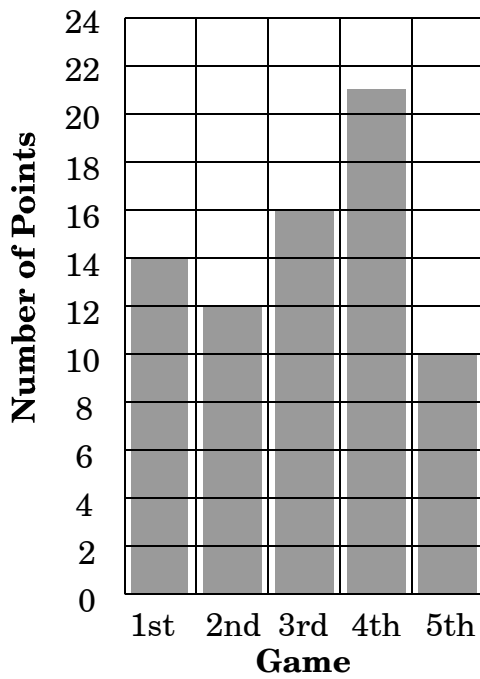
Game 3: 12 points

Game 4: 16 points

Game 5: 10 points
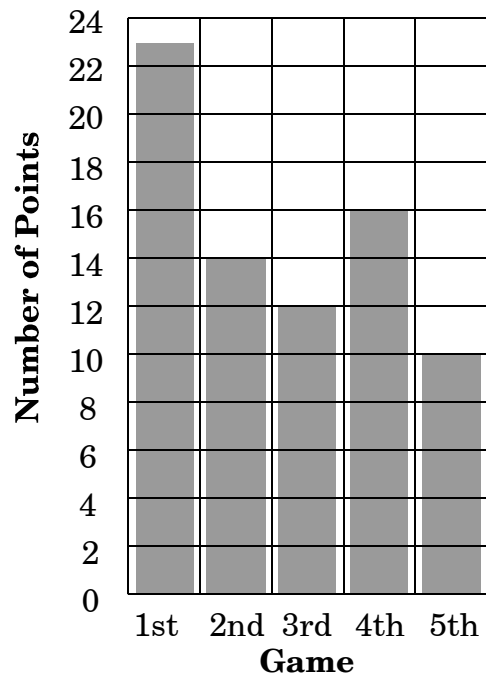
Which is a correct way to graph this information?
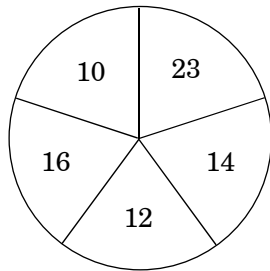
A   **Janice's Scoring**

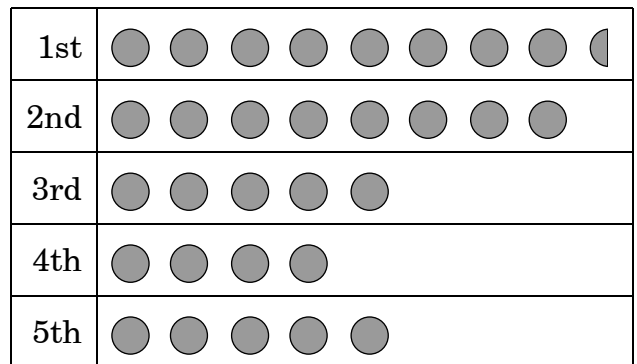
B   **Janice's Scoring**

C   **Janice's Scoring**
      (5 games)

D   **Janice's Scoring**

○ = 2 points

3.   The graph below shows the number of students in the class who were born during each month. How many students are in the class?

Students' Birth Months
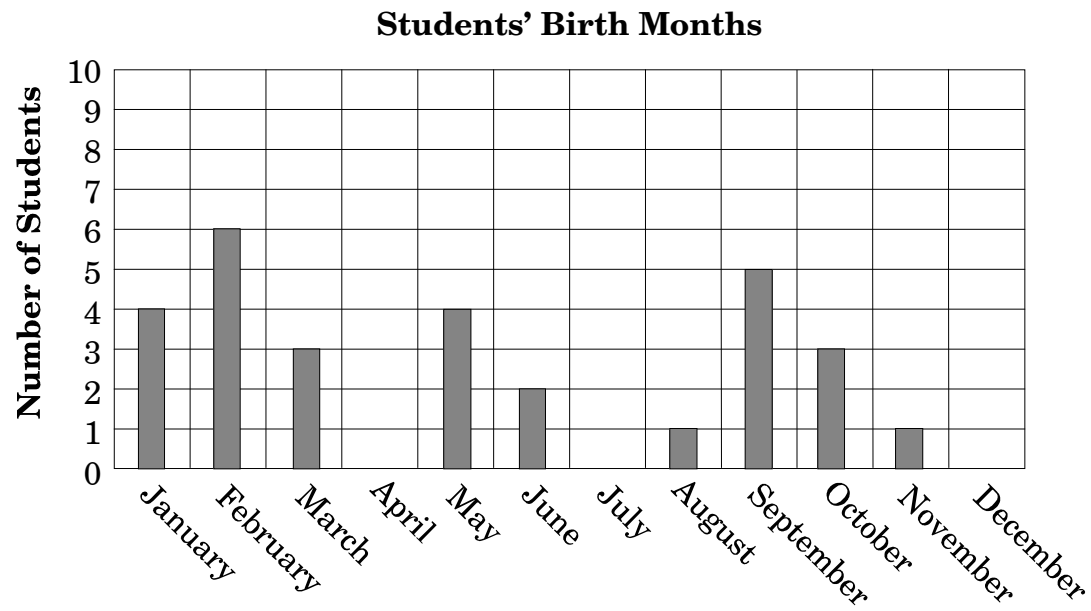
A   28

B   29

C   30

D   31

4.   Miss Smith's class graphed how often the school served pizza for lunch during the school
year. The graph showed more times in May than any other month. It showed none at all
in December. It also showed the school served pizza the same number of times in
September and March. Which graph shows all of these facts?

A

B

C

D
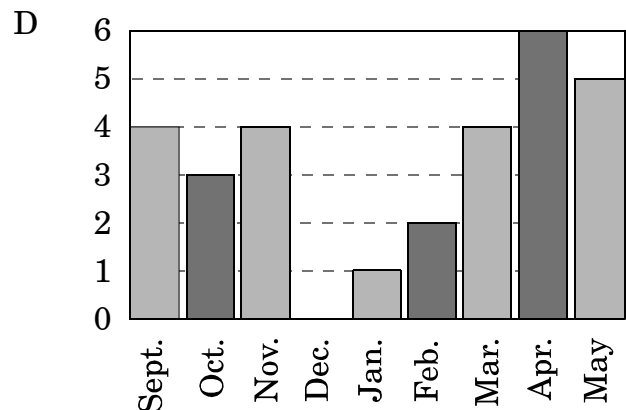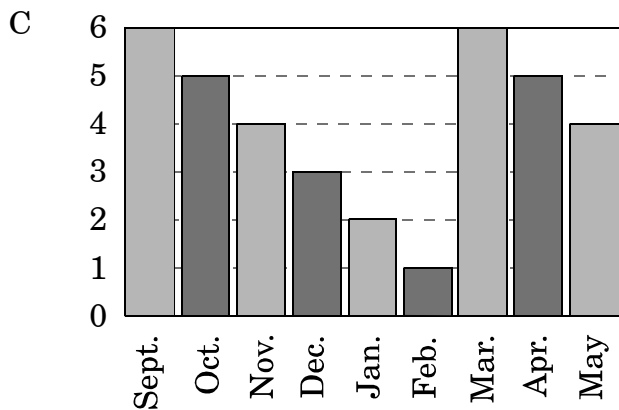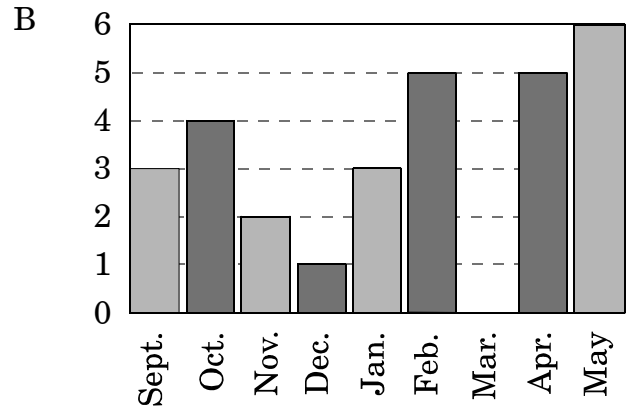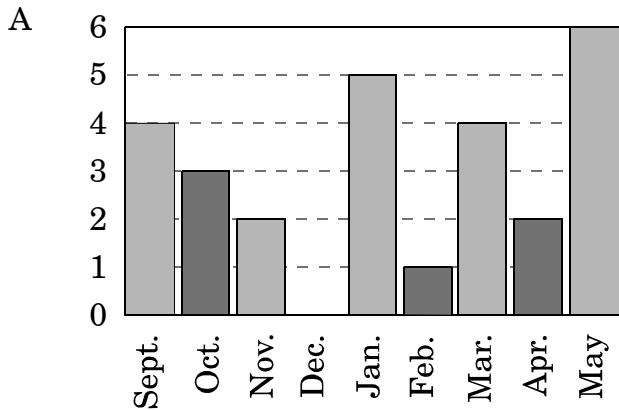
5.   What is the median score on this math test?

Math Test

Name	Alfonso	Beth	Karla	Rory	Yin
Score	95	78	80	83	95

A   80

B   83

C   85

D   95

6.   The nurse recorded data on the number of people who donated blood in the last
      10 community blood drives. The data are shown below.

60, 64, 52, 62, 58, 57, 64, 64, 68, 52

What is the mode of the number of donors?

A   10

B   16

C   61

D   64

7.   Derrick observed the water temperature in his fish tank for a science project. On the first day it was 76°F, the second day it was 72°F, the third day it was 78°F, and on the fourth and fifth days it was 74°F. What was the range of the temperature readings?

A   74.8°F

B   74°F

C   8°F

D   6°F

8.   Suzanne listed her math grades.

85, 87, 93, 85, 96, 100, 85, 99

What was her median math grade?

A   15

B   85

C   90

D   93

9.   What was the lowest hourly temperature recorded at the 1,000-foot elevation?

Hourly Temperature
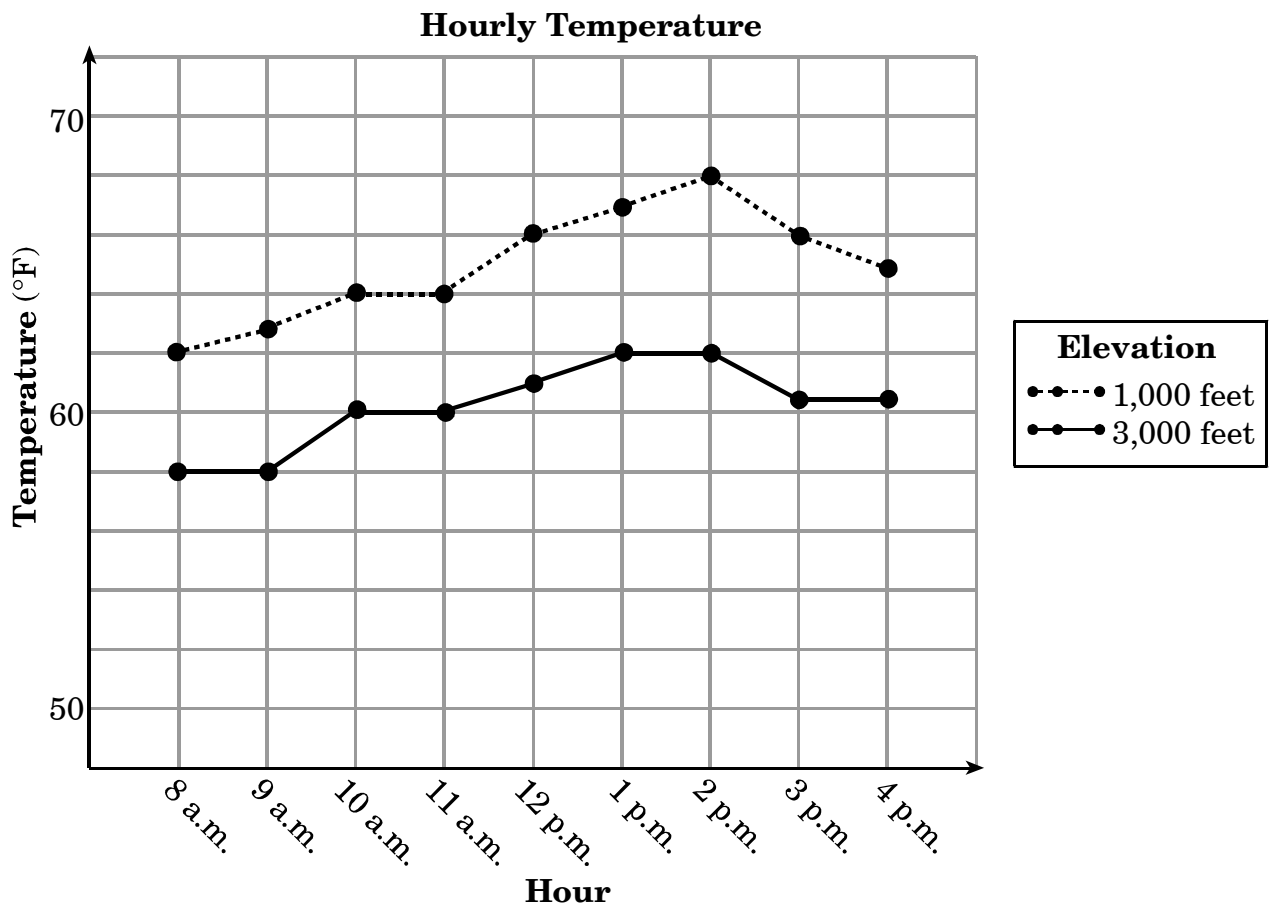
A   54°F

B   58°F

C   61°F

D   62°F

10.   These Venn Diagrams show the chores students do at home.

Chores for Fourth-Graders   **Chores for Fifth-Graders**
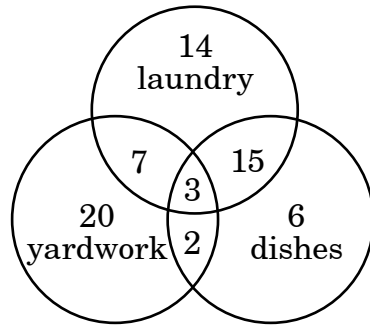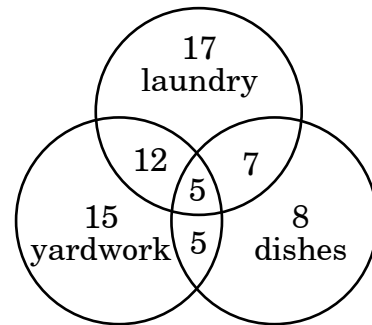
According to the data, how many fourth- and fifth-grade students do 2 or more chores?

A   8

B   48

C   56

D   136

_____

11.   The cafeteria is serving french toast, cereal, and fruit. If a student may choose any two of those items plus either grape juice or orange juice, how many different breakfast combinations are possible?

A   2

B   4

C   6

D   12

12.   Marcie marked the faces of a fair cube
      with numbers for a probability
      experiment. If the probability of
      getting a multiple of 3 is $\frac{3}{6}$, how could
      she have marked the faces of her cube?

      A   3, 5, 9, 11, 15, 17

      B   2, 4, 6, 8, 10, 12

      C   3, 6, 9, 12, 15, 18

      D   5, 7, 9, 11, 13, 15

End of Goal 4 Sample Items

1   **Objective:**   **4.01**
Collect, organize, analyze, and display data (including line graphs and bar graphs) to solve problems.
Thinking Skill: Analyzing   **Correct Answer:**   A

2   **Objective:**   **4.01**
Collect, organize, analyze, and display data (including line graphs and bar graphs) to solve problems.
Thinking Skill: Analyzing   **Correct Answer:**   B

3   **Objective:**   **4.01**
Collect, organize, analyze, and display data (including line graphs and bar graphs) to solve problems.
Thinking Skill: Applying   **Correct Answer:**   B

4   **Objective:**   **4.01**
Collect, organize, analyze, and display data (including line graphs and bar graphs) to solve problems.
Thinking Skill: Analyzing   **Correct Answer:**   A

5   **Objective:**   **4.02**
Use the coordinate system to describe the location and relative position of points and draw figures in the first quadrant.
Thinking Skill: Applying   **Correct Answer:**   B

6   **Objective:**   **4.02**
Describe the distribution of data using median, range and mode.
Thinking Skill: Applying   **Correct Answer:**   D

7   **Objective:**   **4.02**
Describe the distribution of data using median, range and mode.
Thinking Skill: Applying   **Correct Answer:**   D

8   **Objective:**   **4.02**
Describe the distribution of data using median, range and mode.
Thinking Skill: Applying   **Correct Answer:**   C

9   **Objective:**   **4.03**
Solve problems by comparing two sets of related data.
Thinking Skill: Applying   **Correct Answer:**   D

10 **Objective:** **4.03**
Solve problems by comparing two sets of related data.
Thinking Skill: Applying   **Correct Answer:** C

11 **Objective:** **4.04**
Design experiments and list all possible outcomes and probabilities for an event.
Thinking Skill: Applying   **Correct Answer:** C

12 **Objective:** **4.04**
Design experiments and list all possible outcomes and probabilities for an event.
Thinking Skill: Analyzing   **Correct Answer:** A