

## Section B: Practice Problems

1. Here is how Diego recorded his classmates' favorite colors:

yellow red red blue red blue purple

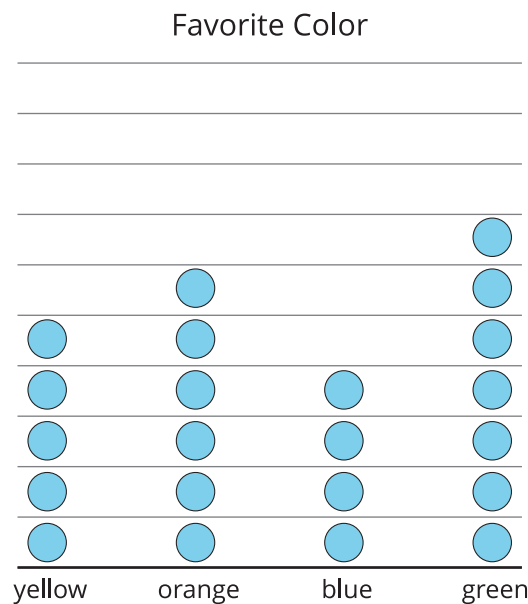
yellow red red blue purple red blue

blue yellow red red

Create a representation to show Diego's data.

(From Unit 1, Lesson 7.)

2. The picture graph shows the favorite colors of some students.

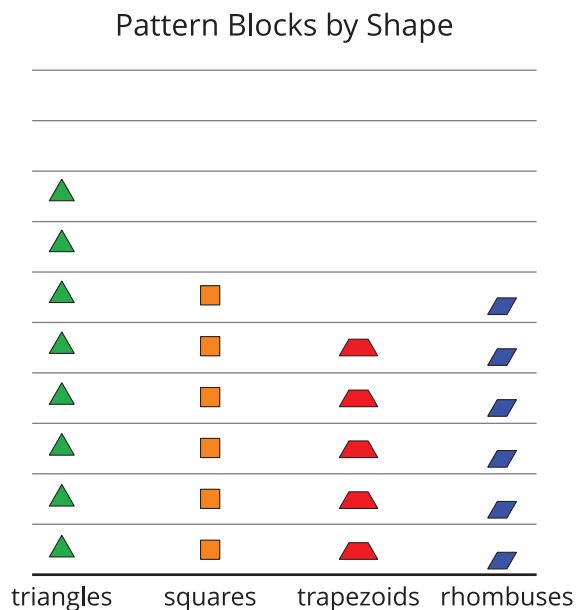


Select **3** statements that are true about the data recorded in the graph.

- A. More students like green than any of the other colors.
- B. 5 students chose blue as their favorite color.
- C. 2 more students chose blue than orange.
- D. 22 students voted in all.
- E. 3 fewer students chose blue than green.

(From Unit 1, Lesson 8.)

3. The picture graph shows the pattern blocks that were used to create a pattern.

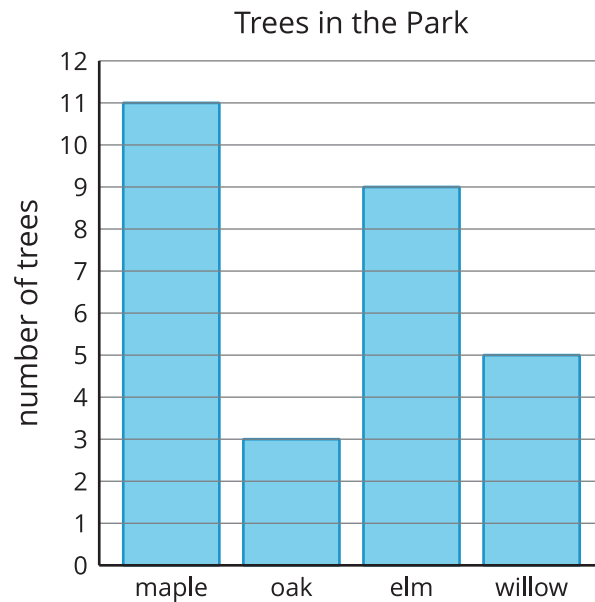


Select 3 questions that you can answer with the graph.

- A. Are there more trapezoids than squares?
- B. Are all of the triangles together in the pattern?
- C. How many hexagons are there?
- D. How many more triangles are there than rhombuses?
- E. How many squares and trapezoids are there in the shape altogether?

(From Unit 1, Lesson 8.)

4. Use the bar graph to answer the questions about the trees in the park.



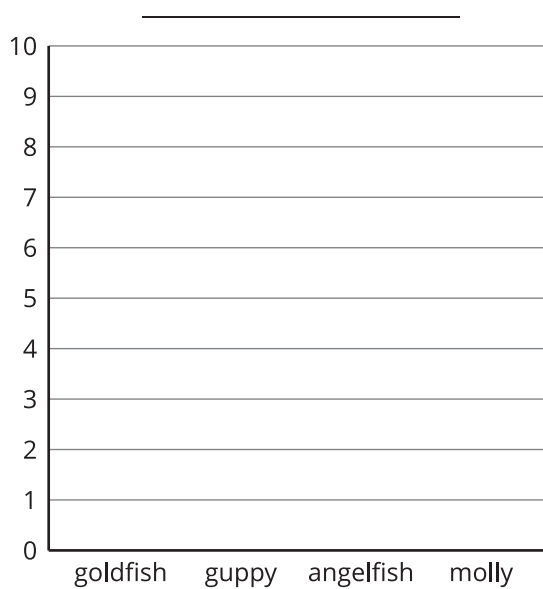
- a. How many trees are there altogether?
  
  
  
  
  
  
  
  
  
  
- b. How many more maple trees are there than willow trees?
  
  
  
  
  
  
  
  
  
  
- c. Which kind of tree has the smallest number?

(From Unit 1, Lesson 9.)

5. The table shows the fish in a tank.

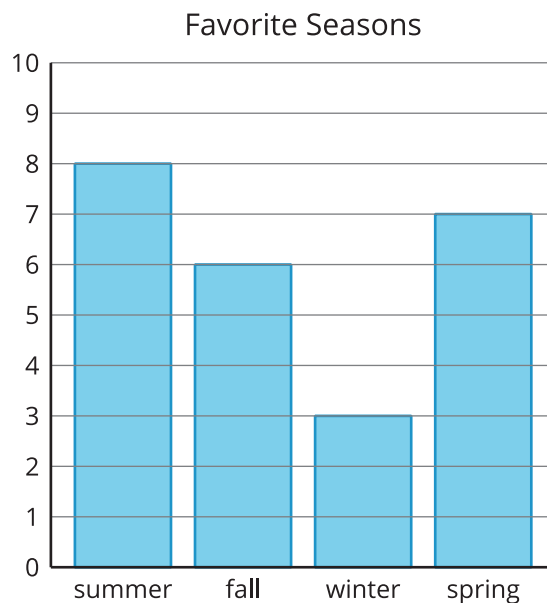
name	number
goldfish	3
guppy	9
angel fish	4
molly	5

Make a bar graph showing the data from the table.



(From Unit 1, Lesson 10.)

6. The bar graph shows the favorite seasons of some students.



a. Write two questions that you can answer using the graph.

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b. Answer your questions.

(From Unit 1, Lesson 11.)

## 7. Exploration

The data display about some shapes in a bag is not finished. It shows the kinds of shapes, but not how many of each are in the bag.

triangles	squares	circles

Create a set of data about how many shapes are in the bag that makes all of these statements true:

- There are more than 15 shapes altogether, but less than 25 shapes.
- There are 6 more squares than circles.
- There are 7 fewer circles than triangles.

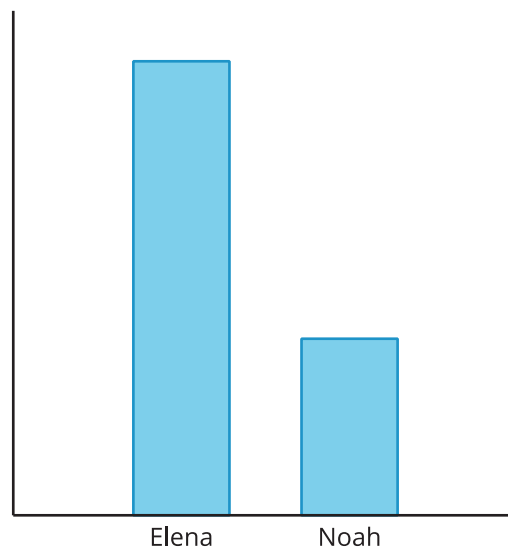
## 8. Exploration

- a. Gather data at school or at home and make a graph showing the data.
- b. Ask a math question that can be answered with the data.
- c. Trade with a partner and answer each other's questions.



## 9. Exploration

Han made this bar graph showing the number of songs Elena and Noah listened to on Saturday.



a. How could Han improve the diagram?

b. If Noah listened to 7 songs, how many songs do you think Elena listened to? Explain your reasoning.

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