

Name: _____

HOMEWORK

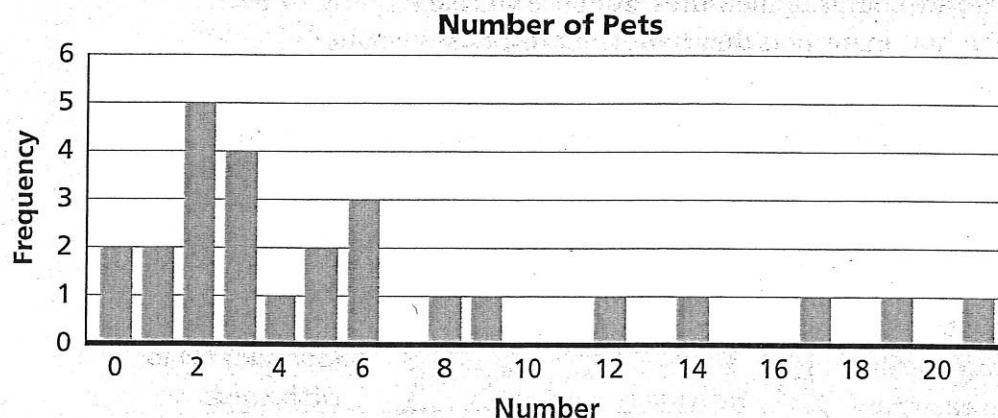
One middle-school class gathered data about their pets by tallying students' responses to these questions:

- How many pets do you have?
- What is your favorite kind of pet?

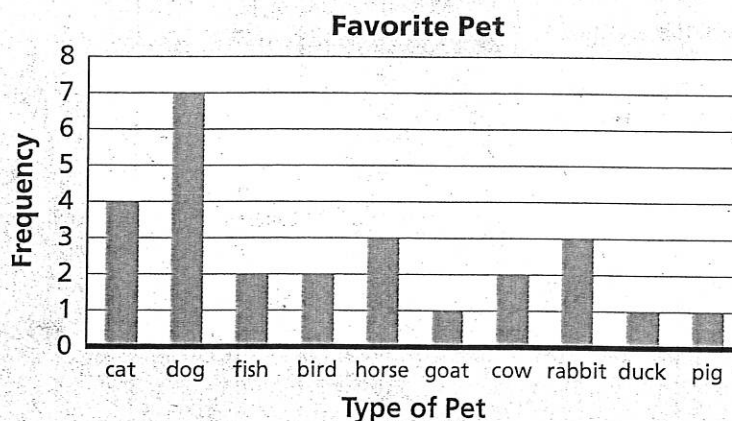
The students made tables to show the tallies, or frequencies. Then they made bar graphs to show the data distributions.

Number of Pets

Number	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Frequency	2	2	5	4	1	2	3	0	1	1	0	0	1	0	1	0	0	1	0	1	0	1

**Favorite Pet**

Pet	Frequency
cat	4
dog	7
fish	2
bird	2
horse	3
goat	1
cow	2
rabbit	3
duck	1
pig	1



Problem 2.4

Decide whether Questions A through E can be answered by using data from the graphs and tables. If so, give the answer and explain how you got it. If not, explain why not.

- A** Which graph shows categorical data? Numerical data?
- B**
1. What is the total number of pets the students have?
 2. What is the greatest number of pets a student has?
- C**
1. How many students are in the class?
 2. How many students chose a cat as their favorite kind of pet?
 3. How many cats do students have as pets?
- D**
1. What is the mode of the favorite kind of pet? XXXXXXXXXX
 2. What is the median number of pets students have? The range?
- E**
1. Tomas is a student in this class. How many pets does he have?
 2. Do the girls in the class have more pets than the boys?

Using the distribution of the data, how would you describe the number of pets owned by this class? What would you say were the favorite kinds of pets? Use measures of center and other tools to help you describe the results of the survey.

A C E Homework starts on page 48.

Did you know?

Goldfish are trainable. With coaching, goldfish can learn to swim through hoops and tunnels, push a tiny ball into a net, and pull a lever for food.

