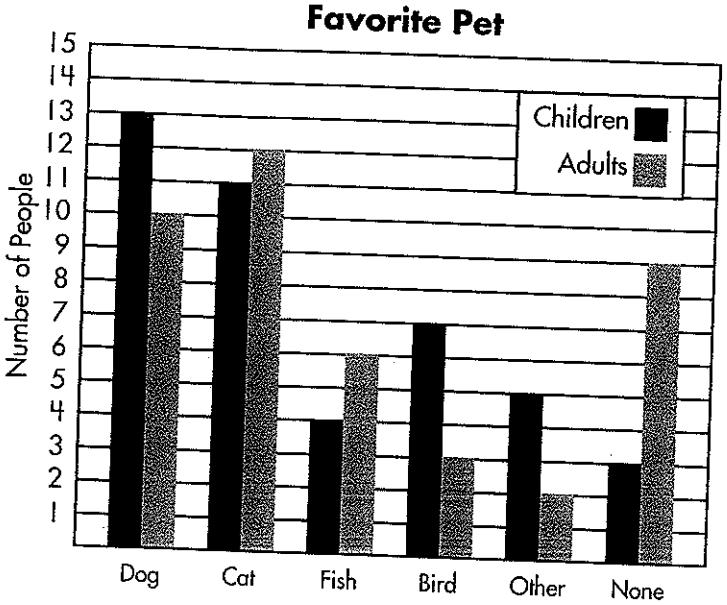
NAME _____

Lesson 9.1 Bar Graphs

Bar graphs are used to compare data that has been collected from two or more data sets. Different colors or patterns are used for the bars to identify each category of a **multiple bar graph.**



This graph shows the favorite pets of adults and children who were surveyed.

Use the bar graph above to answer each question.

1. How many people responded to the survey? _____
2. How many adults responded? How many children? adults: _____ children: _____
3. How many adults chose fish? _____
4. How many children chose cat? _____
5. How many more adults than children preferred cats? _____
6. How many more children chose dog than bird? _____
7. Which pet was chosen by the most adults? _____
8. Which pet (other than none) was chosen by the fewest children? _____
9. How many total people chose bird? _____

NAME _____

Lesson 9.7 Stem-and-Leaf Plots

A **stem-and-leaf** plot is used to arrange data in order from least to greatest. It is displayed in two columns. The right column shows the **leaves**—the ones digit of each number. The other digits form the **stems** and are shown in the left column. The **key** explains how to read the plot.

Use the following data to create a stem-and-leaf plot.

71, 73, 87, 106, 95, 73, 86,
99, 104, 82, 93, 74, 101, 90

Stem	Leaves
7	1 3 3 4
8	2 6 7
9	0 3 5 9
10	1 4 6

Key: 7 | 1 = 71

Create a stem-and-leaf plot for each set of data.

a

1. 18, 17, 12, 24, 17, 33, 21, 22, 14, 31, 30, 20, 16, 35

b

122, 120, 135, 130, 148, 131, 142, 122, 133, 143, 135, 132

2. 32, 46, 21, 33, 51, 65, 22, 45

78, 109, 73, 82, 95, 112, 93, 86, 109

3. 135, 146, 128, 164, 137, 152, 167, 150

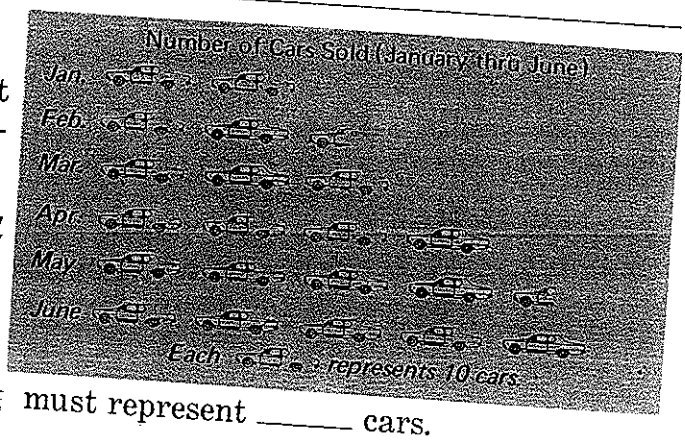
346, 327, 368, 342, 339, 351, 346, 329

Lesson 1 Picture Graphs

NAME _____

Study how a **picture graph** is used to present the following information in a clear and interesting way.

At Andy's Auto Agency, 20 cars were sold in January, 25 in February, 30 in March, 40 in April, 45 in May, and 50 in June.

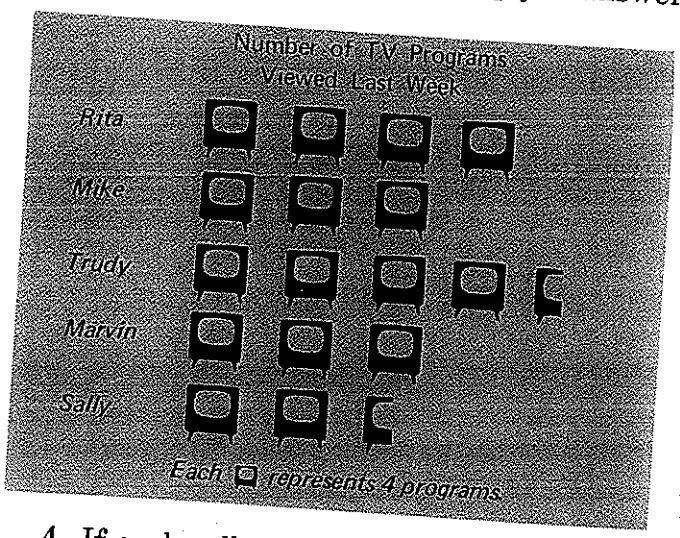


Since each represents 10 cars, each must represent _____ cars.

How many cars were sold in March? _____ In February? _____

In which month was the greatest number of cars sold? _____ The least number? _____

Use the picture graphs to help you answer each question.



1. Who watched the greatest number of programs on TV last week? _____ The least number? _____

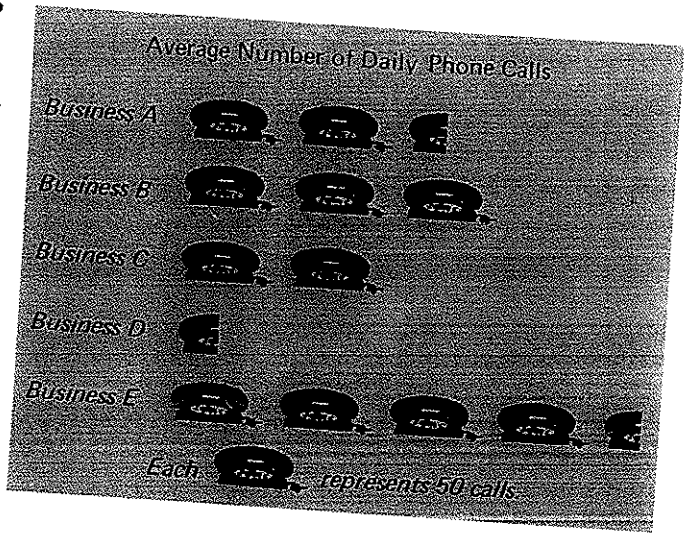
2. How many programs were watched by Rita? _____ By Sally? _____

3. Which two people watched the same number of programs? _____

4. If each call costs the same amount, which business will have the highest phone bill? _____ The lowest phone bill? _____

5. On an average day, how many calls were made by Business A? _____ By Business C? _____

6. What is the total number of phone calls made by all the businesses on any one day? _____



Perfect score: 10 My score: _____