Extra Practice

Organizing / Analyzing Data Packet

Name:

Collect, Organize, and Display Data (pages 152–153)

Make a frequency table and line plot for each survey question.

1. How many telephones do you have in your home?
2. How many different telephone numbers does your family have for one house?

Range, Mode, Median, and Mean (pages 154–157)

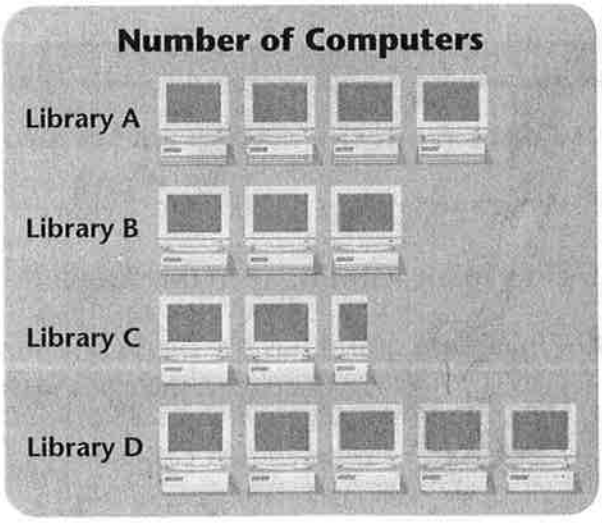
Find the range, mode, median, and mean.

1. 4 8 2 1 2
2. 52 23 67 9
3. 17 17 16 20 14 8
4. 121 100 90 95

Read and Make Pictographs (pages 158–159)

Use data from the pictograph for problems 1–4.

1. How many computers are in Library D?
2. Find the range of computers in the four libraries.
3. What is the total number of computers in the four libraries?
4. What is the mean number of computers?
5. Use the data below to make a pictograph.

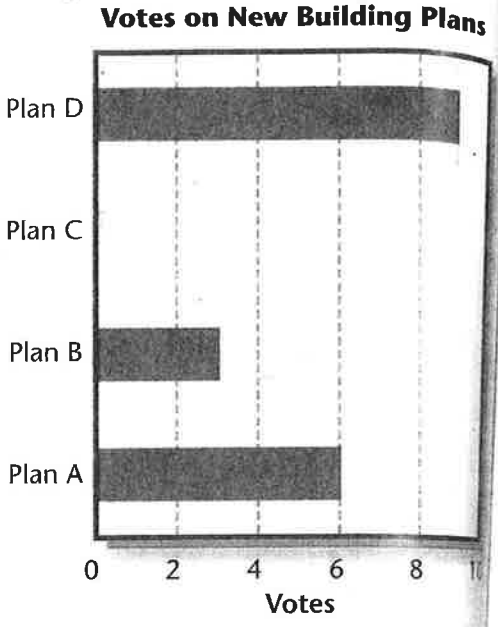


Number of Books in the Library on Different Inventors	
Inventor	Number of Books
Thomas Edison	30
Louis Pasteur	10
Wright Brothers	25
George Washington Carver	40

Extra Practice

Read and Make Bar Graphs (pages 160–163)

Use data from the bar graph for problems 1–4.

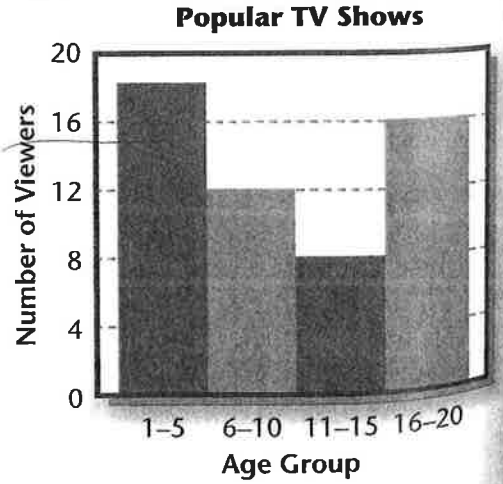


1. How many people voted for each of the plans?
2. Which plan got twice as many votes as Plan B?
3. How many people voted altogether?
4. What is the range of votes? the median number of votes?
5. Make a bar graph from the data.

Number of Inventors Students Can Name	
Student	Number
Lisa	3
Andrew	2
Lauren	4
Colton	9

Read and Make Histograms (pages 164–165)

Use data from the histogram for problems 1–4.



1. Which age group has the most viewers?
2. How many viewers are in this survey?
3. Which age group has the fewest viewers?
4. Describe what happens to the graph when a 7-year-old viewer turns 8. Explain.
5. Make a histogram from the data.

Number of Air Conditioners Sold At Harry's Hardware			
	Number Sold		Number Sold
January to March	16	July to September	34
April to June	29	October to December	4

Choose an appropriate method to find the average for each

(a) Find the average of 39, 47, 121, 98 and 350.

(b) Rani reads 40, 55, 25, 33, 47 and 70 pages in 6 hours. Find her average speed of reading per hour.

(c) Ragu took 48, 68, 44 and 55 runs in 4 innings. Find his average score.

(d) In a school the percentages of passes in 10 grade sessions in 7 years were 99, 87, 95, 86, 91, 92 and 94. Find the average percentage of passes per year.

(e) The production of wheat for the past 5 years is 10, 20, 15, 35 and 25tonnes per acre. Find the average yield per year per acre.

(f) Find the average of first 10 even numbers.

(g) A train runs at a speed of 86 km, 70 km, 60 km, 54 km and 90 km for five hours. Find the average speed.

(h) A shopkeeper sold four varieties of rice each 50 kg, 75 kg, 25 kg and 10 kg. Find his average sale.