

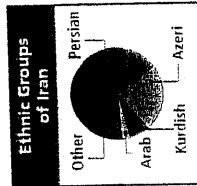
Game Date	Points	Game Date	Points
Feb 7	36	Feb 25	18
Feb 14	34	Feb 27	31
Feb 18	27	Mar 1	43
Feb 20	46	Mar 3	42
Feb 23	32	Mar 4	28

- LESSON 7-1
The table shows the number of points a player scored during the last ten games of the season.
- Make a cumulative frequency table of the data.
 - Make a stem-and-leaf plot of the data.
 - Make a line plot of the data.

- LESSON 7-2
Find the mean, median, mode, and range of each data set.
- 13, 8, 40, 19, 5, 8
 - 21, 19, 23, 26, 15, 25, 25
 - 66, 78, 57, 87, 66, 59, 239, 84

Country	1998 Population (millions)	2001 Population (millions)
Tunisia	9.3	9.7
Syria	15.3	16.7
Turkey	64.5	66.5
Algeria	30.1	31.7

- LESSON 7-3
The table shows the populations of four countries. Make a double-bar graph of the data.
- The list below shows the scores on a history quiz. Make a histogram of the data.
87, 92, 75, 79, 64, 88, 96, 99, 69, 77, 78, 78, 88, 83, 83, 76



- LESSON 7-4
The circle graph shows the results of a survey of 100 people from Iran who were asked about their ethnic backgrounds. Use the graph for Exercises 10–12.
- Which ethnic group is the second largest?
 - According to the survey, 3% of the people are Arab. How many of the people surveyed are Arab?

- Decide whether a bar graph or a circle graph would best display the information. Explain your answer.
- the number of guitars sold compared with the number of drum sets sold for the year 2002
 - the average temperature for each day of one week

- LESSON 7-5
Use the data to make a box-and-whisker plot.
22, 41, 39, 27, 29, 30, 40, 61, 25, 28, 32

Month	Students
Jan	5
Feb	8
May	9
Jul	12
Sep	14
Nov	18

- LESSON 7-6
The table shows the number of students Karen tutored during certain months. Use the table for Exercises 16 and 17.
- Make a line graph of the data. Use the graph to determine during which months the number of students increased the most.
 - Use the graph to estimate the number of students Karen tutored during the month of October.

- LESSON 7-7
Choose the type of graph that would best represent each type of data.
- the number of participants in a hole-in-one contest for the last 10 years
 - the prices of the five top-selling NFL players

- LESSON 7-8
Determine whether each sample may be biased. Explain.
- A bank asks the first 10 customers that enter in the morning if they are satisfied with the bank's customer service.
 - Members of a polling organization survey 1,000 residents by randomly choosing names from a list of all residents.

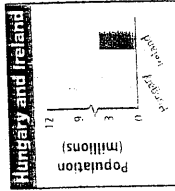
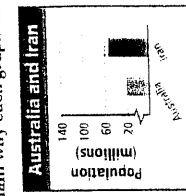
LESSON 7-9

- The table shows the average number of points per game that Michael Jordan scored during each season with the Chicago Bulls. Use the data to make a scatter plot. Describe the relationship between the data sets.

Year	Points	Year	Points
1990	33.6	1994	26.9
1991	31.5	1995	30.4
1992	30.1	1996	29.6
1993	32.6	1997	28.7

LESSON 7-10

- Explain why each graph could be misleading.



- Australia and Iran
- Hungary and Ireland

- Evaluate $5(2 + 3 \cdot 4) \div (2 \cdot 6 - 7)$.
- Evaluate $10 + 2 \cdot 3 - 4$.
- Find the value of $10(3 + 1) - 16 \div 4$.
- Solve $\frac{24 - 6}{3} = x$.
- Solve $6(5) + 4 = b$.
- Evaluate 3^2 .
- Evaluate 4^3 .
- Evaluate 3^0 .
- Evaluate 2^3 .
- Evaluate 10^2 .

Translate into an algebraic expression or equation:

- the product of x and 15.
- five times the sum of x and 4
- six times the sum of x and 2
- The difference of 4 times x and 9 is 27.
- fourteen less than c
- Evaluate $2x^2 - y(y - z)$ when $x = 3$, $y = 5$, and $z = 2$.
- Evaluate $4a + b - 9$ if $a = 9$ and $b = 5$.
- Evaluate $cd - 5$, if $c = 4$ and $d = 8$.
- Evaluate $6x^2 + y(z - 3x)$ when $x = 2$, $y = 5$, and $z = 15$.
- Evaluate $a + 5b - c$ ($a = 8$, $b = 3$, $c = 10$)
- Simplify $11x - 4 - 7x$
- Combine like terms in the following expression: $6x + 3x + 21 + x$.
- Combine like terms in the following expression: $22x - 8x - 3x - x$.
- Simplify $4x + 18 + 30x + 16$
- Simplify $16x + 8 - 7x - 5$

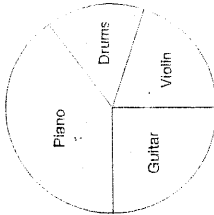
Name the property illustrated.

- $9(ab + 2) = 9(2 + ab)$
- $4(5 \cdot 8) = (4 \cdot 5) \cdot 8$
- $0(7 + 9) = 0$
- $c + 0 = c$
- $3(4 + 1) = 3 \cdot 4 + 3 \cdot 1$
- Rewrite using the distributive property $9(3 + 6)$.
- Rewrite using the distributive property $4(x + 5)$.
- Simplify $6(x + 4)$.
- Simplify $2(5 + 6x)$.
- Simplify $5(3 + 7x)$.

7-4 Reading and Interpreting Circle Graphs

The circle graph directly below shows the results of a survey of 80 teens who were asked about their favorite musical instruments. Use the graph for Exercises 1-3.

Favorite Musical Instruments

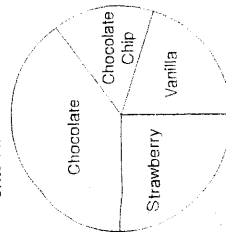


- According to the survey, 20% of teens chose violin. How many teens chose violin?

Reading and Interpreting Circle Graphs

The circle graph directly below shows the results of a survey of 120 children who were asked about their favorite flavor of ice cream. Use the graph for Exercises 1-3.

Favorite Flavor of Ice Cream



- Did more children choose chocolate chip or vanilla as their favorite flavor of ice cream?
- About what percent of children chose strawberry ice cream?
- According to the survey, 20% of the children chose vanilla ice cream. How many children chose vanilla ice cream?