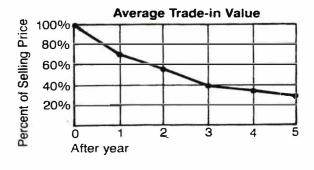
ALGEBRA

14 - 1 Practice

Use the graph to answer each question. SHOW WORK!!

The graph at the right shows how the trade-in value of a car decreases yearly. The percents given in the graph are based on the price of the car when it was new.



- 1 What percent of a new car's value is lost after three years?
- 2 What is the approximate trade-in value of an \$11,600 car after four years?

- 3 Pam Kane wants to trade in her car before it loses half its value. How long should she keep her car?
- **4** Two years ago, Leo Yednik paid \$12,800 for a new car. What is the trade-in value of the car now?

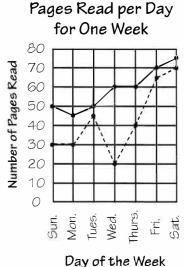
5 Leo Yednik wants to buy a new station wagon with a selling price of \$13,650. If the dealer allows him the trade-in allowance found in #4, what will be the net price of the new vehicle?



· · · · Working with Multiple-line Graphs

A multiple-line graph compares two or more sets of data, which are changing over time. This multiple-line graph illustrates the number of novel pages read each day for one week by two language arts students, Alyssa and Greg.

Directions: Use the information on page 13 and this graph to answer the following questions.



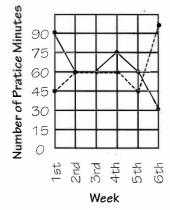
Key

1105	
	= Alyssa
	= Greg

- 1. How many pages did Greg read on Sunday? _____
- 2. How many pages did Alyssa read on Sunday? _____
- 3. How many pages did Greg read on Friday?_____
- 4. How many pages did Alyssa read on Friday? _____
- 5. On which day did Greg read the fewest pages? _____
- 6. On which day did Alyssa read the fewest pages?
- 7. Which student read the most pages during the week?
- 8. How many more pages did Alyssa read than Greg on Monday? ____
- 9. On which three days did Alyssa read exactly five pages more than Greg? ______
- 10. How many total pages did Alyssa read?
- 11. How many total pages did Greg read? _____
- 12. Which student was more consistent in doing the assigned reading?_____

Directions: Study this graph illustrating how many minutes Sarah and Catherine practiced playing the piano in a period of six weeks. Answer the questions below.

Minutes of Piano Practice Each Week for Six Weeks



Key · = Sarah ----= = Catherine

- 13. How many minutes did Sarah practice the first week?
- 14. How many minutes did Catherine practice the first week?___
- 15. How many minutes did Sarah practice for the entire six
- 16. How many minutes did Catherine practice for the entire six weeks? ____
- 17. Which student practiced more in the sixth week?
- 18. Did Catherine become a better or worse piano student during the six weeks?_____ Explain.



Algebra

14-2 Practice

This single bar graph shows the number of electoral votes for each of the 10 most populated states. The states are labeled in blocks along the horizontal axis. The number of electoral votes is indicated on the vertical axis. There are 538 electoral votes distributed among the 50 states and the District of Columbia. They are elected by the people in each state to officially vote for the president of the United States. It takes 270 electoral votes to win an election.

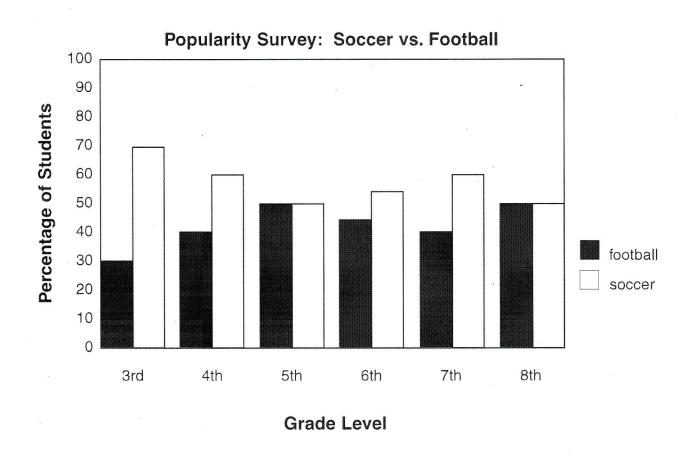
56 **Number of Electoral Votes** 52 48 44 40 36 32 28 24 20 16 12 Michigan Florida New York North Carolina New Jersey ²ennsylvania SHOW WORK!

State

Directions: Use the information on page 9 and the graph to answer these questions.

- 1. How many electoral votes does California have? _____
- 2. How many electoral votes does Texas have? _____
- 3. What is the interval between numbers on the scale? ______
- 4. How many electoral votes does New Jersey have?_____
- 5. What is the difference in the number of votes between Michigan and Illinois?
- 6. Which state has exactly one more electoral vote than Texas?
- 7. What is the total number of electoral votes of the 10 most populated states?
- 8. How many electoral votes are distributed among the remaining 40 states and the District of Columbia? _____
- 9. Why would a candidate spend more time campaigning in California than in North Carolina?
- 10. How many more votes than these 10 states would be needed to win a presidential election?
- 11. Which two pairs of states have the same number of electoral votes as California?
- 12. Why did the intervals start with 12 votes? _____
- 13. What could be misleading about this graph? ______

This double bar graph illustrates a survey of the relative popularity of soccer and football as participant sports for boys in the third through the eighth grade.



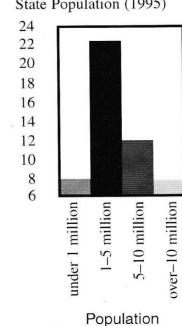
14.	What percentage of third grade boys preferred to play football?
15.	In which two grades do boys like to play soccer and football equally well?
اك.	What percentage of boys in the fourth grade prefer soccer?
17.	Is there any grade in which more boys prefer football?
18.	What percentage of boys prefer football in the sixth grade?
19.	What percentage of boys prefer football in the seventh grade?

Number of States

ALGEBRA

Histogram

State Population (1995)



14-3 Practice

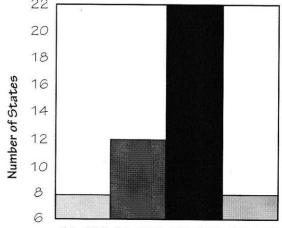
Directions: Use the histogram to answer these questions.

- I. How many states have a population under a million?
- 2. How many states have a population over 10 million?
- 3. How many states have a population of 5 to 10
- **4.** What range of population is most common for the states?_____
- 5. Name two reasons you think states have such different population figures.
- Which two states do you think have the most population and the least population?_____
- 7. In which category does your state fall?_____

Directions: This histogram illustrates the frequency of graduation rates in a recent year and the states where this frequency occurs.

- **8** How many states have between 81% and 90% of its students graduating?
- **q.** How many states have between 51% and 60% of its students graduating?
- 10. What percentage of students is graduating in 22 states? ____
- 11. How many states are represented in all?
- 12. About 65% of California's public high school students graduate. In what frequency is California recorded on the graph? _____
- 13. Vermont is the state with the highest graduation rate (89.9%). In what frequency is Vermont included on the graph?
- 14. How might this histogram be used by public officials?

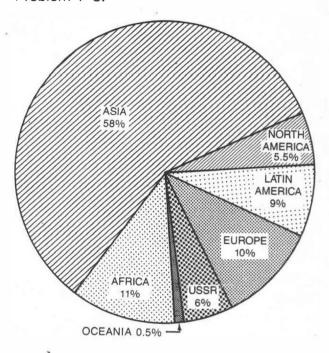




51-60% 61-70% 71-80% 81-90% Percentage of Graduate Students

Algebra

The world's population is estimated to be about 4,762,000,000. The circle graph below shows where the world's population lives, by region. Use the circle graph for Problem 1–8.



14-4 Practice

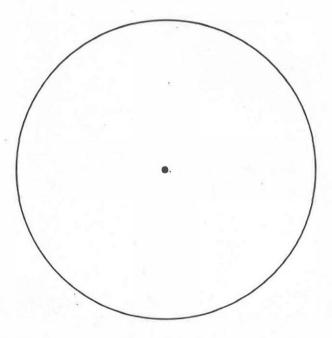
9. Complete the table below and use the data to make a circle graph.

Henderson Family Budget

Category	Percent of Income	
Food	20%	
rood	20 /6	
Housing	25%	
Utilities	5%	
Transportation	10%	
Clothing	8%	
Taxes	22%	
Entertainment	7%	
Other	3%	

Find the approximate population of:

- 1. Africa ______
- 2. Asia ______
- 3. North America ______
- 4. Latin America ______
- 5. Europe ______
- 6. USSR _____
- 7. Oceania ______
- **8.** How many more people live in Asia than live in Europe?



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Practice: 0-12a

Date

Block

Find the mean, median, mode, and range for each data set. SHOW WORK!!

- 1) Test Scores

 39 40 44 45 45 47 47

 49 51 53 54
- 2) Goals in a Hockey Game

 4 5 5 5 5 5 5 6

 7

- 3) Games per World Series

 4 5 5 5 6 7 7 7
- 4) Age at First Job

 15 15 15 15 16 16 17

 18 18 20

- Mens Heights (Inches) 5) 64 66 66 67 67 69 66 70 70 70 71 71 72 72 73 74
- 6) Goals in a Hockey Game

 2 2 2 3 4 5 5 5
 5 7 7 7 9 9 9 11
 11

- Annual Household Income 7) 6,200 6,450 7,100 8,250 8,600 9,100 9,200 11,450 17,100 18,050 20,750 25,150 28,700 30,850 33,350
- # Words in Book Titles 8) 1 1 1 2 2 2 2 2 3 3 5 2 2 4 5 5

Name	Date	Bloc
INAME	Dale	DIUC

ALGEBRA

0-12b Practice

Solve each of the following. SHOW WORK!!

- 1 Find the value of x if the mean of the following data is 91. 99, 86, 76, 95, x
- 2 Find the value of x if the mean of the following data is 4.8. 3.8, 4.2, 5.3, x

- 3 On his first five tests Mark received scores of 50, 62, 80, 75, & 70. What grade does Mark need on his sixth test to have an average of 60?
- 4 Luke mowed 8 lawns and earned \$12, \$10, \$15, \$15, \$9, \$10, & \$15 for the first 7. How much did he make on lawn 8 if the mean was \$12?

- **5** What is the value of x if 8, 4, & x have the same mean as 4 & 10?
- 6 On his four science tests, Rick scored 35, 54, 60, & 50. What does he need to score on his next test to pass the class? Will Rick be able to pass the class?