2-1

Study Guide and Intervention

Problem-Solving Investigation: Make a Table

When solving problems, one strategy that is helpful is to *make a table*. A table often makes it easy to clarify information in the problem. One type of table that is helpful to use is a *frequency table*, which shows the number of times each item or number appears.

You can use the *make a table* strategy, along with the following four-step problem-solving plan to solve a problem.

- **1 Understand** Read and get a general understanding of the problem.
- **2 Plan** Make a plan to solve the problem and estimate the solution.
- 3 Solve Use your plan to solve the problem.
- 4 Check Check the reasonableness of your solution.

Example 1

MOVIES Carlos took a survey of the students in his class to find out what type of movie they preferred. Using C for comedy, A for action, D for drama, and M for animated, the results are shown below. How many more students like comedies than action movies?

CAMMACDCDCMAMMACCDAC

Understand You need to find the number of students that chose comedies and the

number of students that chose action. Then find the difference.

Plan Make a frequency table of the data.Solve Draw and complete a frequency table.

7 people chose comedies and 5 people chose action. So, 7-5 or 2 more students chose comedy than

action.

Check Go back to the list to verify there

are 7 C's for comedy and 5 A's for

action.

Favorite Type of Movie		
Movie Type	Tally	Frequency
comedy	ЖΠ	7
action	# #	5
drama	III	3
animated	Ж	5

Exercise

GRADES The list below shows the quarterly grades for Mr. Vaquera's math class. Make a frequency table of the data. How many more students received a B than a D?

B C A A B D C B A C B B B D A C B B C A A B A B