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## 2-1 <br> 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?

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Understand You need to find the number of students that chose comedies and the number of students that chose action. Then find the difference.

Make a frequency table of the data. 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 | HIII | 7 |
| action | HI | 5 |
| drama | III | 3 |
| animated | HI | 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

