

1-1**Study Guide and Intervention*****A Plan for Problem Solving***

When solving problems, it is helpful to have an organized plan to solve the problem. The following four steps can be used to solve any math 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

SPORTS The table shows the number of field goals made by Henry High School's top three basketball team members during last year's season. How many more field goals did Brad make than Denny?

Name	3-Point Field Goals
Brad	216
Chris	201
Denny	195

Understand You know the number of field goals made. You need to find how many more field goals Brad made than Denny.

Plan Use only the needed information, the goals made by Brad and Denny. To find the difference, subtract 195 from 216.

Solve $216 - 195 = 21$; Brad made 21 more field goals than Denny.

Check Check the answer by adding. Since $195 + 21 = 216$, the answer is correct.

Exercises

1. During which step do you check your work to make sure your answer is correct?

2. Explain what you do during the first step of the problem-solving plan.

SPORTS For Exercises 3 and 4, use the field goal table above and the four-step plan.

3. How many more field goals did Chris make than Denny?

4. How many field goals did the three boys make all together?