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NAME _____ DATE _____

1-1 Problem Solving Strategy: Make a Plan Pages 6-10

You can use a four-step plan to solve real-life, math-related problems.

Explore	Read the problem carefully. Ask yourself questions like "What facts do I know?" and "What do I need to find out?"
Plan	See how the facts relate to each other. Make a plan for solving the problem. Estimate the answer.
Solve	Use your plan to solve the problem. If your plan does not work, revise it or make a new one.
Examine	Reread the problem. Ask, "Is my answer close to my estimate? Does my answer make sense for the problem?" If not, solve the problem another way.

EXAMPLE

Isabel bought 8 CDs at a sale. The first CD purchased costs \$11, and each additional CD costs \$6. What was the total cost, before tax?

Explore	You are given the cost of the first CD and the cost of additional CDs. You need to find the total cost.
Plan	First find the number of additional CDs after the first CD he purchased. Multiply that number by \$6 and add \$11 for the first CD. Estimate the total cost by using $\$11 + 7 \times \$6 = \$55$.
Solve	$8 - 1 = 7$; $7 \times \$6 = \42 ; $\$42 + \$11 = \$55$
Examine	The total cost of \$55 is close to the estimate of \$50, so the answer is reasonable.

PRACTICE

1. The table at the right shows estimates of the number of species of plants and animals on Earth. Find the total number of species on Earth.

Group	Number
Mammals	5,400
Reptiles	13,644
Amphibians	2,800
Birds	9,000
Fish	22,000
Plants	442,644
Invertebrates	4,400,000

a. Write the explore step.
b. Write the plan step.
c. Solve the problem.
d. Describe your solution. Is it reasonable?

2. Jeff is 10 years old. His younger brother, Ben, is 4 years old. How old will Jeff be when he is twice as old as Ben?

3. **Estimate and Practice** At Deep Hoots, there are 576 owls.
If 200 owls are boys, then how many owls are girls?
A 432 girls B 300 girls C 256 girls D 344 girls

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