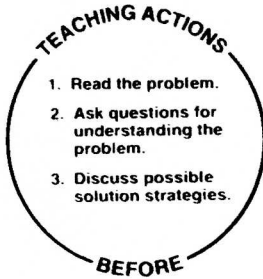


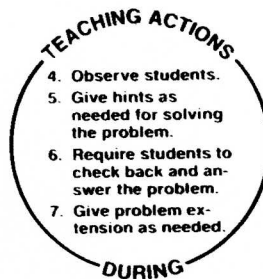
25 Process Problem

All the houses on Brierwood Lane are white, green, or brown. There are twice as many white houses as brown houses. There are 5 more brown houses than green houses. There are 7 green houses. How many houses are there on Brierwood Lane? (Hint: Using the facts given, start with the number of green houses and work backwards.)



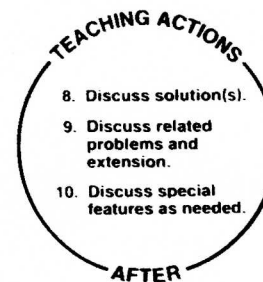
Understanding the Problem

- How many different colors are the houses on Brierwood Lane? (3) What are they? (white, green, or brown)
- Does the story tell exactly how many white houses there are on Brierwood Lane? (no) Brown houses? (no)
- Does the problem tell exactly how many green houses there are on Brierwood Lane? (yes) How many? (7)



Planning a Solution

- Are there more or less brown houses than green houses? (more) How many more? (5)
- If there are 7 green houses, how many brown houses are there? ($7 + 5 = 12$)
- Are there more white houses than brown houses? (yes) How many more? (twice as many, or $12 \times 2 = 24$)
- Which operation would you use to find the total number of houses on Brierwood Lane? (addition)



Finding the Answer

Work Backwards

Start with 7, the number of green houses.
 Add 5 for the brown houses— $7 + 5 = 12$.
 Multiply by 2 for the white houses— $12 \times 2 = 24$.
 Total number of houses— $7 + 12 + 24 = 43$.

There are 43 houses on Brierwood Lane.

Related Problems: 24

Problem Extension

Beagles, collies, and poodles also live on Brierwood Lane. There are half as many beagles as collies. There are 7 fewer collies than poodles. There are 11 poodles. How many dogs live on Brierwood Lane? ($11 + 4 + 2 = 17$)