

Problem-Solving Strategy:

Solve a Simpler Problem

Problem The first automated photocopier was invented in 1959. This machine took 9 seconds to copy 1 page. Ken needs to make 345 copies of a memo and 258 copies of a flyer. Both the memo and the flyer are one page long. How long would it take him to copy all those pages on the 1959 machine?

UNDERSTAND

1. What do you want to know?

PLAN

2. After you make a simpler problem, what do you need to do to solve the original problem?

SOLVE

3. How long would it take Ken to make all the copies?

LOOK BACK

4. Ken used this simpler problem:
 $3 \times 9 = 27$; $2 \times 9 = 18$; and $27 + 18 = 45$. How can you use it to solve the original problem?
