

**Part 5 Multiplication Strategies for the 9s**

1. Jason said since he knows that  $2 \times 9 = 18$ , he can use a doubling strategy to solve  $4 \times 9$ . Use Jason's strategy to solve  $4 \times 9$ .
2. Carla said since she knows  $10 \times 7 = 70$ , she can use this to help her solve  $9 \times 7$ . Show how to use  $10 \times 7$  to solve  $9 \times 7$ .
3. Luis said since he knows  $8 \times 8 = 64$ , he can use this fact to help him solve  $8 \times 9$ . Show how to use  $8 \times 8$  to solve  $8 \times 9$ .

4. Show how to solve these problems.

**A.**  $9 \times 5 =$

**B.**  $6 \times 9 =$

**C.**  $9 \times 9 =$

5. Julia uses a break-apart strategy to solve  $13 \times 9$ . She thinks  $10 + 3 = 13$ , so she multiplies:

$$10 \times 9 + 3 \times 9 = 90 + 27$$

$$90 + 27 = 117$$

Use Julia's break-apart strategy to solve these problems.

**A.**  $14 \times 9 =$

**B.**  $19 \times 9 =$

**C.**  $16 \times 9 =$