Name _____ Date _____

1. 6 × 3 = _____

$(4 × 3) = 12$

$(2 × 3) =$ _____

$12 +$ _____ $=$ _____

$6 × 3 =$ _____

2. 8 × 2 = _____

$(\_\_\_ × 2) =$ _____
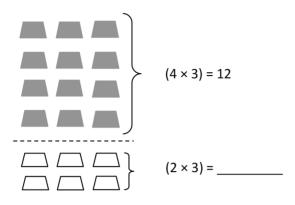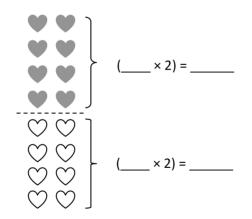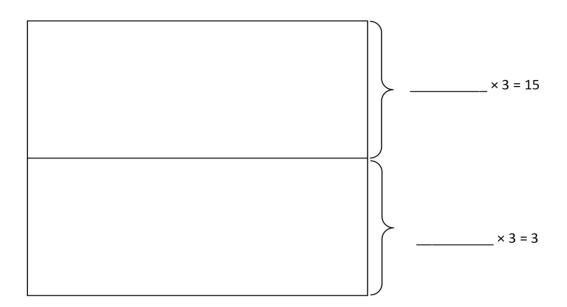
$(\_\_\_ × 2) =$ _____

$(4 × 2) + (4 × 2) =$ _____ $+$ _____

$\_\_\_ × 2 =$ _____

3. Adriana organizes her books on shelves. She puts 3 books in each row.

   a. Fill in the equations on the right. Use them to draw arrays that show the books on Adriana's top and bottom shelves.

   _____ × 3 = 15

   _____ × 3 = 3

   b. Adriana calculates the total number of books as shown below. Use the array you drew to help explain Adriana's calculation.

   $$6 \times 3 = 15 + 3 = 18$$

Answer Key

1. 18; 6; 6, 18; 18

2. 16; 4, 8; 4, 8; 8, 8; 8, 16

3. a. Array of 5 rows of 3 shown on top shelf, 5; array of 1 row of 3 shown on bottom shelf, 1

   b. 6×3 broken into two smaller facts: $5 \times 3 = 15$ and $1 \times 3 = 3$; answers of two smaller facts added: $15 + 3$; $6 \times 3 = 15 + 3 = 18$