Lesson 1 Problem-Solving Practice

Factors and Multiples

Solve.

1. A warehouse has three shelves that can hold 8, 12, or 16 skateboards. Each shelf has sections holding the same number of skateboards. What is the greatest number of skateboards that can be put in a section?	2. Monique has 15 oranges, 9 peaches, and 18 pears. She wants to put all of the fruit into decorative baskets. Each basket must have the same number of pieces of fruit in it. Without mixing fruits, what is the greatest number of pieces of fruit that Monique can put in each basket?
3. Jill wants to put 45 sunflower seeds, 81 corn plants, and 63 tomato plants in her garden. If she puts the same number of plants in each row and if each row has only one type of plant, what is the greatest number of plants that Jill can put in one row?	4. The high school marching band rehearses with either 6 or 10 members in every line. What is the smallest number of people who can be in the marching band?
5. The Line A bus arrives at the bus stop every 25 minutes, and the Line B bus arrives every 15 minutes. Both are at the bus stop right now. In how many minutes will both be at the bus stop again?	6. In a clock, a large gear completes a rotation every 45 seconds, and a small gear completes a rotation every 18 seconds. If the gears are aligned now, how many seconds will pass before the gears are aligned again?