

# Lesson 1 Homework Practice

## *Factors and Multiples*

Find the GCF of each set of numbers.

1. 12, 30 \_\_\_\_\_

2. 50, 40 \_\_\_\_\_

3. 28, 42, 56 \_\_\_\_\_

4. 14, 56, 63 \_\_\_\_\_

**ANALYZE TABLES** A store is organizing toys into bins. The toys must be put into bins so that each bin contains the same number of toys without mixing the toys.

Toys to Place in Bins	
Toy	Number of Toys
Anemones	12
Limpets	14
Snails	18

5. What is the greatest number of toys that can be put in a bin?

\_\_\_\_\_

6. How many bins are needed for each type of toy?

\_\_\_\_\_

Find the LCM of each set of numbers.

7. 3, 5 \_\_\_\_\_

8. 8, 12 \_\_\_\_\_

9. 4, 5, 6 \_\_\_\_\_

10. 5, 10, 15 \_\_\_\_\_

11. Avery gets newsletters by e-mail. He gets one for sports every 5 days, one for model railroads every 10 days, and one for music every 8 days. If he got all three today, how many more days will it be until he gets all three newsletters on the same day again?

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# Lesson 1 Problem-Solving Practice

## *Factors and Multiples*

Solve.

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|---|--|
| <p>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?</p>  | <p>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?</p> |
| <p>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?</p> | <p>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?</p>  |
| <p>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?</p>   | <p>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?</p>   |