6th Grade Unit 1: Lesson 3-1

Check Your Understanding (p. 37):

4. (a) 4 (b) 8
   (c) 9 (d) 13
   (e) 3 (f) 18

5. (a) 6 (b) 5

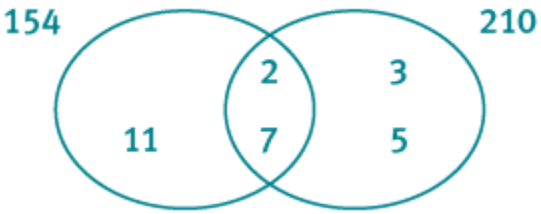
6. 4 woodwind, 2 percussion, 3 brass

7. Answers may vary. List all of the factors of each number. Find the factors that are common to all of the numbers. The greatest of these is the GCF.

Lesson 3-1 Practice (p. 37):

8. 6

9. The prime factors of 154 are shown in the circle on the left and the prime factors of 210 are shown in the circle on the right. The common prime factors are in the intersection of the two circles. The GCF is the product of the common prime factors. The GCF is 2 x 7 or 14.



10. (a) 35 cm
    (b) 22 pieces

11. (a) possible value: 6 and 18
    (b) Answers may vary. Every such number will be a multiple of 2, of 3, and of 6.

12. (a) 8 bouquets
    (b) 6 roses, 4 daisies, and 3 tulips.

Activity 3 Practice Lesson 3-1 (p. 41):

1. D

2. C

3. 80

4. 21

5. (a) 2 (b) 9
   (c) 2 (d) 5
   (e) 12 (f) 10
   (g) 1 (h) 14
   (i) 7 (j) 1
   (k) 8 (l) 3

6. (a) Answers may vary. Sample answer: 26 and 39.
   (b) I multiplied 13 by 2 and by 3. I knew that each product had a factor of 13 and that it was the only common factor other than 1.

7. (a) 6 bags
   (b) 3 granola bars and 2 apples

8. length of 3 ft., width of 3 ft.

9. (a) 5 teams
   (b) 6 sixth graders, 14 seventh graders, and 9 eight graders

10. (a) 12 inches
    (b) 25
    (c) 7