Answers for Lesson 4-3, pp. 193-194 Exercises

- 1. Composite; it has more than two factors, 1, 3, 9, and 27.
- 2. Prime; it has only two factors, 1 and 19.
- 3. Prime; it has only two factors, 1 and 31.
- 4. Composite; it has more than two factors, 1, 2, 19, and 38.
- 5. Composite; it has more than two factors, 1, 3, 5, 9, 15, and 45.
- 6. Prime; it has only two factors, 1 and 53.
- 7. Composite; it has more than two factors, 1, 3, 29, and 87.
- 8. Composite; it has more than two factors, 1, 3, 31, and 93.

9.	2 ³	10.	7 ²	11.	2 • 17
12.	2 • 3 • 7	13.	$2^3 \cdot 3^2 \cdot 5$	14.	5 • 23
15.	2 • 3 • 31	16.	3 ³ • 23	17.	5
18.	7	19.	25	20.	3
21.	7 <i>c</i>	22.	3 <i>y</i> ²	23.	6 <i>c</i> ³
24.	2mn	25.	prime	26.	neither
27.	composite; 7 ²				
28.	composite; 2 · 3 ² · 29				
29.	8 groups	30.	2	31.	1
32.	18	33.	4	34.	3
35.	13	36.	z	37.	30 <i>a</i>
38.	xy	39.	a²b	40.	c²df
41.	1	42.	С		

43. Answers may vary. Sample: 6, 30

44. 42 chairs

- 45. composite; 11.23 46. composite; 3² · 5² · 7
- 47. composite; 17.59
- 49. Yes; the GCF is 1. 50. No; the GCF is 3.
- 51. No; the GCF is 13. 52. Yes; the GCF is 1.
- 53. No; the GCF is 13. 54. Yes; the GCF is 1.
- 55. Yes; the GCF is 1. 56. No; the GCF is 6.
- 57. Answers may vary. Sample: Divide 50 by the prime factor
 5, and then divide the quotient, 10, by the prime factor 5
 in a factor tree. Write the prime factorization 2 5².

48. prime