Answers for Lesson 4-7, pp. 211-212 Exercises

1. 64	2. a^7	3. x^9y^2
4. 10,000,000	5. 128	6. x^8
7 m^{52}	8. 432	9. x^6y^5
10. $28b^7$	11. $18c^{10}$	12. $10x^9$
13. $24y^{11}$	14. $4a^4$	15. $-36b^4$
16. $35x^{14}$	17. $-30d^7$	18. $48b^{11}$
19. 1,000,000	20. x^{12}	21. m^{24}
22. 64	23. 6,561	24. c^{16}
25. x^{35}	26. 0	27. g^{96}
28. 7	29. 7	30. 4
31. 8	32. 3	33. 3
34. =	35. <	36. >

37. Answers may vary. Sample: 2^{20}, $(2^2)^{10}$, $(2^4)^5$, $2^2 \cdot 2^{18}$

38. Both $x^8 \cdot x^2$ and $x^5 \cdot x^5$ are equivalent to x^{10}.

39. $2x^4$; the two terms are being added, not multiplied.

40. No; $-(2^3)^2$ is -64, but $(-2^3)^2$ is 64.

41. 2^{16}; $2^{16} = 2^{1+15} = 2 \cdot 2^{15}$

42. $3x^3$	43. $15x^3$	44. $8x^2 + 8x$