Answers for Lesson 2-5, pp. 74–76   Exercises

1. multiplicative inverse

2. $x \approx 3$ 3. 1   4. $-\frac{2}{7}$ 5. -5

6. $\frac{2}{5}$ 7. $-\frac{3}{5}$ 8. $3\frac{2}{5}$ 9. $-\frac{5}{24}$

10. $-\frac{1}{3}$ 11. $-\frac{2}{3}$ 12. $6\frac{3}{4}$ 13. $8\frac{3}{4}$

14. -11 15. $-\frac{2}{3}$ 16. $-5\frac{1}{3}$ 17. 17

18. $\frac{49}{81}$ 19. $\frac{1}{101}$ 20. -33 21. $-\frac{3}{4}$

22. $-\frac{2}{5}$ 23. $\frac{2}{9}$ 24. 22 laps   25. $1\frac{1}{3}$ lb

26. 25   27. $\frac{3}{5}$ 28. $2\frac{2}{3}$ 29. $-3\frac{3}{4}$

30. $-3\frac{1}{4}$ 31. -19

32. $50\frac{4}{5} \div 3\frac{1}{10}$; 16   33. $10\frac{7}{8}$ lb

34. 9; check students' work.   35. 6

36. $-\frac{1}{6}$ 37. 6

38. a. 22 cups

    b. 6 pies

39. Dividing by a fraction is the same as multiplying by its reciprocal. The reciprocal of a number less than 1 is a number greater than 1, so the answer will be greater.

40. Answers may vary. Sample: Dividing by 4 will give an answer that is smaller than 10. Dividing by $\frac{1}{4}$ will give an answer greater than 10 because it is the same as multiplying by 4.

41. $10\frac{5}{8}$ yd   42. 9 nickels   43. C   44. J

45. D   46. -43 47. 7   48. 0