

## Answers for Lesson 6-5, pp. 316-384 Exercises

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|--|----------------------------------|
| 1. $\frac{2}{5}$                                   | 2. $\frac{7}{25}$                |
| 3. $\frac{39}{100}$                                | 4. $\frac{11}{20}$               |
| 5. $\frac{1}{5}$                                   | 6. $\frac{3}{50}$                |
| 7. $\frac{49}{50}$                                 | 8. $3\frac{3}{20}$               |
| 9. $2\frac{1}{5}$                                  | 10. $1\frac{1}{50}$              |
| 11. 0.36   | 12. 0.044                        |
| 13. 0.01   | 14. 0.063                        |
| 15. 1.33   | 16. 0.797                        |
| 17. 3.5  | 18. 0.52                         |
| 19. 0.314  | 20. 0.0003                       |
| 21. 0.4; $\frac{2}{5}$                             | 22. 168%                         |
| 23. 36%  | 24. 70%                          |
| 25. 0.2%   | 26. 259%                         |
| 27. 23%  | 28. 25%                          |
| 29. 35%  | 30. 22.2%                        |
| 31. 38.9%  | 32. 13%                          |
| 33. 0.63, 69%, 0.72, $\frac{3}{4}$                 | 34. 1%, 0.09, 11%, $\frac{1}{8}$ |
| 35. 305%, $3\frac{1}{10}$ , $3\frac{2}{15}$ , 3.23 | 36. <                            |
| 37. <  | 38. >                            |
| 39. 61.5%  | 40. 83.3%                        |

41. 111% 42. 450%

43. 240%

44-55. Answers may vary. Samples are given.

44. about 80%

45. about 30%

46. 16.7% 47. 50%

48. 33.3% 49. 83.3%

	Fraction	Decimal	Percent
50.	$\frac{4}{5}$	<b>0.8</b>	<b>80%</b>
51.	$\frac{1}{10}$	0.10	<b>10%</b>
52.	$\frac{1}{2}$	0.5	<b>50%</b>
53.	$\frac{3}{4}$	<b>0.75</b>	<b>75%</b>
54.	$\frac{67}{100}$	<b>0.67</b>	67%
55.	$\frac{1}{4}$	<b>0.25</b>	25%

56. Yes;  $100\% - 18\% \neq 82\%$

57. No; it is not possible to answer more items than are on the test.

58. Yes; the runner ran  $1\frac{1}{2}$  times as far as she ran yesterday.

59. Yes; the test had 300 items and the student answered 288 of them correctly.

60.  $-\frac{3}{4}$ , -0.72, 0.63, 69%, 78%

61. -0.09, -1%, 0.093, 11%,  $\frac{1}{8}$

62. -3.23,  $-3\frac{2}{15}$ , 0.399, 305%,  $3\frac{1}{10}$

63. -11.15, -1,015%, 120%, 10.99,  $11\frac{5}{8}$

64.  $\frac{1}{10.000}$
65. Yes;  $\frac{32}{45} = 71.\bar{1}$ , and  $71.\bar{1}\% > 70\%$ .
66. 8.3%
67. Answers may vary. Sample: Move the decimal point two places to the right and add a percent sign.  
 $0.25 = 25\%$ ,  
 $1.35 = 135\%$
68. a. 19 questions  
 b. 20%
69. Answers may vary. Sample: There is a 20% chance of snow tomorrow.  
 $20\% = \frac{20}{100} = \frac{1}{5}; 0.20$
70. Explanations may vary. Sample: 0.25 is 25% and 0.25% is 0.0025.
71.  $\frac{3}{5}, 60\%$                       72.  $\frac{7}{40}, 17.5\%$                       73.  $\frac{9}{40}, 22.5\%$
74. A                                      75. H                                      76. C
77. [2] 39.2%;  $0.392 = \frac{392}{1,000} = \frac{392 \div 10}{1,000 \div 10} = \frac{39.2}{100} = 39.2\%$   
 [1] minor error OR answer only
78. [2] No;  $20\% = 0.20$ ,  $\frac{2}{11} = 0.\bar{18}$ , and  $0.\bar{18} < 0.20$ .  
 [1] minor error OR answer only
79.  $\frac{2}{8}$ , or  $\frac{1}{4}$                                       80.  $\frac{3}{8}$
81.  $\frac{1}{8}$     82.  $\frac{6}{8}$ , or  $\frac{3}{4}$
83. 47    84.  $-0.175$
85. 1,320    86.  $-45$
87. 93