

Answers for Lesson 6-2, pp. 300-302 Exercises

- 1. 16
- 2. 15
- 3. 5
- 4. 2
- 5. 8
- 6. 8
- 7. 72
- 8. 45
- 9. 20
- 10. 28
- 11. 20
- 12. 14
- 13. no, cross products not equal
- 14. yes, cross products equal
- 15. no, cross products not equal
- 16. no, cross products not equal
- 17. no, cross products not equal
- 18. yes, cross products equal
- 19. yes, cross products equal
- 20. no, cross products not equal
- 21. \$2.40
- 22. 12 tea bags
- 23. 15 posters
- 24. yes, cross products equal
- 25. no, cross products not equal
- 26. yes, cross products equal
- 27. no, cross products not equal
- 28. 12
- 29. 10
- 30. 5
- 31. 72
- 32. about 19 euros
- 33. Answers may vary. Sample: The lengths in the proportion, 3 ft and 15 in., have different units. They should use the same unit.
- 34. 28
- 35. 19.2

36. 6.7

37. 133.3

38. 77.2

39. 17.5

40. 16.9

41. 1.5

42-49. Answers may vary. Samples are given.

42. 22

43. 5

44. 20

45. 30

46. 3

47. 1

48. 20

49. 38

50. \$36.67

51. 40 defective chips

52. Yes; multiply each side by $\frac{b}{c}$.

53. 12.6 cm

54. B

55. $\frac{3}{1.65} = \frac{5}{x}$; \$2.75

56. $\frac{20}{27.50} = \frac{12}{x}$; \$16.50

57. $\frac{25}{2.5} = \frac{100}{x}$; 10 s

58. $\frac{3}{2.8} = \frac{33.3}{x}$; 31.08 min

59. $\frac{3\frac{1}{2}}{4} = \frac{x}{1}$; 0.875 lb.

60. Answers may vary. Sample: Yes; $\frac{1,160}{12} = \frac{d}{5}$ so $d \approx 483$, very close to the driver's 484 km.

61. 360 times

62. 15 s

63. 12 s

64. 30 more times

65. $\frac{5}{18\frac{36}{60}} = \frac{8}{v}$; 29.76 min

66. $\frac{6}{2} = \frac{y}{10}$; 30 lb

67. $\frac{4}{1.85} = \frac{16}{t}$; \$7.40

68. $\frac{5.76}{2.25} = \frac{c}{1}$; \$2.56