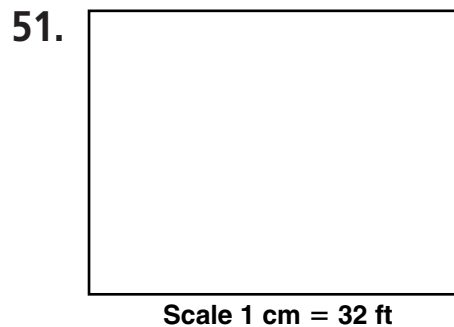
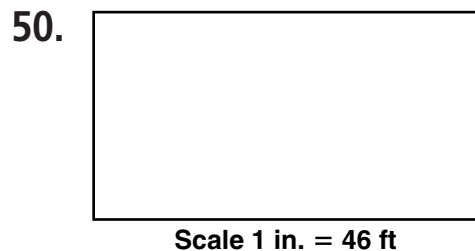


Answers for Lesson 7-1, pp. 368–370 Exercises (cont.)



52. Elaine did not convert units, and thought the ratios equaled 1.

53. $\frac{b}{d}$ or $\frac{a}{c}$

54. $\frac{c}{d}$ or $\frac{a}{b}$

55. $\frac{c + 2d}{d}$

56. $\frac{a}{b} = \frac{c}{d}$ (Given); $ad = bc$ (Cross-Product Prop.); $bc = ad$
(Symm. Prop. of =); $\frac{bc}{ac} = \frac{ad}{ac}$ (Div. Prop. of =);
 $\frac{b}{a} = \frac{d}{c}$ (Simplify)

57. $\frac{a}{b} = \frac{c}{d}$ (Given); $ad = bc$ (Cross-Prod. Prop.); $\frac{ad}{cd} = \frac{bc}{cd}$
(Div. Prop. of =); $\frac{a}{c} = \frac{b}{d}$ (Simplify)

58. $\frac{a}{b} = \frac{c}{d}$ (Given); $\frac{a}{b} + 1 = \frac{c}{d} + 1$ (Add. Prop. of =);
 $\frac{a + b}{b} = \frac{c + d}{d}$ (Subst.); $\frac{a + b}{b} = \frac{c + d}{d}$ (Simplify)

59. $x = 5$; $y = 24$

60. $x = 3$; $y = 15$

61. $x = 3$; $y = 21$