

ML8 Chapter 4 Warm-Up Answers

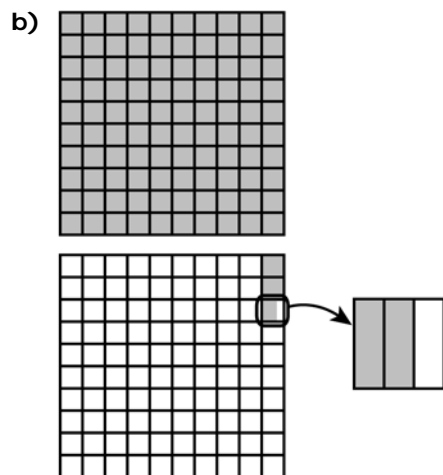
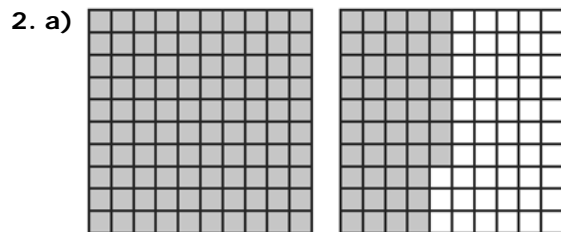
BLM 4–3 Chapter 4 Warm-Up

Section 4.1

- No. Answers will vary. Example: The sum of the square on the hypotenuse is greater than the sum of the squares on the other two sides. $25 + 4 \approx 30$
- 40 m
- 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80
- 6.2 cm
- 10.2
- 36
- 100
- 121
- 5
- 8

Section 4.2

- a) 161% b) $\frac{3}{5}\%$



- 1000 mL is the better buy at 0.0015¢/mL, compared to 500 mL at \$0.0019¢/mL.
- 200 m/25 s = 8 m/s; 300 m/35 s = 8.6 m/s; The 200 m runner is faster.
- 12 rolls/min
- a little more than 7 because $7^2 = 49$
- a little less than 5 because $5^2 = 25$
- $\square = 3$
- $\square = 1$
- $\square = 150$

Section 4.3

- a) 0.08, 8% b) 0.297, 29.7%
c) 1.22, 122.2%
- a) 100.5%, $1\frac{5}{1000}$ or $1\frac{1}{200}$
b) 475%, $4\frac{75}{100}$ or $4\frac{3}{4}$
- a) 2.25, $2\frac{25}{100}$ or $2\frac{1}{4}$
b) 0.0092, $\frac{92}{10000}$ or $\frac{23}{2500}$
c) 0.458, $\frac{458}{1000} = \frac{229}{500}$
- 250%
- a) \$60, \$59.94
b) $\frac{1000 \text{ g}}{1500 \text{ g}} = \frac{\$19.98}{x}$; $x = \$29.97$
- $\frac{50}{100}$ or $\frac{1}{2}$
- $\frac{50}{100}$ or $\frac{1}{20}$
- $\frac{0.5}{100}$ or $\frac{1}{200}$
- 74.8%, $\frac{74.8}{100}$, 0.748
- 125.5%, $\frac{125.5}{100}$, 1.255

Section 4.4

- 4.8
- 366
- \$562.50
- 0.003%
- a) \$70 b) \$100 c) Answers will vary. Example: The scale on the y-axis creates the misleading impression that the prices seem much further apart than they actually are.
- d) Answers will vary. Example: Redraw the graph with a continuous scale that starts at zero.
- 12
- \$10
- \$350
- $\frac{2}{5} = \frac{10}{25} = \frac{14}{35}$
- 24