ML8 Chapter 6 Warm-Up Answers

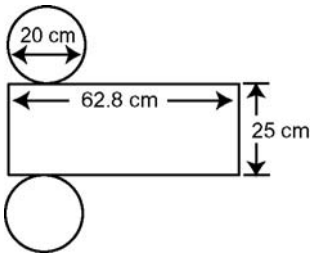
BLM 6–3 Chapter 6 Warm-Up

Section 6.1

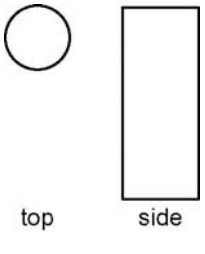
1. Answers will vary. Example:
Area of circles ≈ 100 × 3 × 2 ≈ 600 cm^2
Area of rectangle ≈ 20 × 3 × 25 ≈ 1500 cm^2
Surface area ≈ 2100 cm^2

2. 2198 cm^2

3.



4.



5. Answers will vary. Make sure that the three views are labelled.

6. 12 m

7. 12 m^2

8. $\frac{1}{3}$

9. 125%, $1\frac{1}{4}$

10. 0.88, 88%

Section 6.2

1. $3 \times \frac{5}{6} = \frac{15}{6} = 2\frac{3}{6} = 2\frac{1}{2}$

2. $2 \times \frac{2}{3} = \frac{4}{3} = 1\frac{1}{3}$

3. $\frac{12}{8} = 1\frac{4}{8} = 1\frac{1}{2}$

4. $\frac{7}{2} = 3\frac{1}{2}$

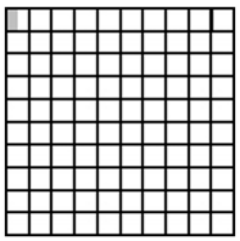
5. a cube

6. $270

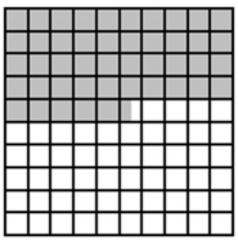
7. Answers will vary. Examples:
• Divide $300 by 10 and then subtract the answer from $300.
• Multiply $300 by 0.9: 9 × 3 = 27 and add a zero.

8. 62.5%

9.



10.



Section 6.3

1. $\frac{1}{18}$

2. $\frac{3}{8}$

3. $\frac{2}{12} = \frac{1}{6}$

4. $\frac{10}{5} = 2$

5. $\frac{18}{9} = 2$

6. Answers will vary. Example: Use patterning. It takes 9 ninths to make 1 whole. 18 is 2 × 9. Therefore, the answer is 2.

7. 2

8. 3

9. 7.25%; 0.0725

10. 1.053

Section 6.4

1. Estimates may vary. Example: 0; $\frac{6}{20} = \frac{3}{10}$

2. Estimates may vary. Example: 0; $\frac{1}{18}$

3. Estimates may vary. Example: $\frac{1}{2}$; $\frac{5}{14}$

4. $\frac{2}{28} = \frac{1}{14}$

5. $\frac{1}{36}$

6. $30

7. $6

8. $1500

9. 9

10. 121

Section 6.5

1. a) $3\frac{3}{5}$ **b)** $7\frac{2}{3}$ **2. a)** $\frac{24}{7}$ **b)** $\frac{14}{11}$

3. $\frac{60}{14} = 4\frac{4}{14} = 4\frac{2}{7}$ **4.** $\frac{26}{12} = 2\frac{2}{12} = 2\frac{1}{6}$

5. $\frac{169}{18} = 9\frac{7}{18}$

6. $8^2 = 64$ $9^2 = 81$ $\sqrt{74} \approx 8.6$

7. $10^2 = 100$ $11^2 = 121$ $\sqrt{114} \approx 10.7$

8. $6^2 = 36$ $7^2 = 49$ $\sqrt{38} \approx 6.2$

9. 144

10. 169

Section 6.6

1. $\frac{8}{9}$ **2.** $\frac{1}{10}$ **3.** $\frac{45}{4} = 11\frac{1}{4}$ **4.** $\frac{65}{44} = 1\frac{21}{44}$

5. $\frac{35}{14} = 2\frac{1}{2}$ **6.** $3.99 **7.** 8 : 10 : 6

8. 4 : 5 : 3 **9.** $\frac{8}{6} = 1\frac{1}{3}$ **10.** $\frac{6}{10} = \frac{3}{5}$