ML8 Chapter 7 Warm-Up Answers

BLM 7–3 Chapter 7 Warm-Up

Section 7.1

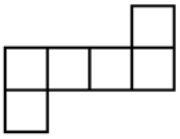
1. $4 \div \frac{1}{4} = 16$. No, she does not have enough bran.

2. Answers will vary. Example: 1 scoop = 4 horses; 2 scoops = 8 horses; 4 scoops = 16 horses. No, she does not have enough bran.

3. $\frac{5}{12}$

4. a cube

5. Answers will vary. Example:



6. a) 4 **b)** 9 **c)** 49

d) Answers will vary. Example: Multiply the denominator of the fraction by the whole number.

7. a) 1 **b)** 1 **c)** 1

d) Answers will vary. Example: If you are multiplying a whole number by a fraction with 1 as a numerator, then the whole number becomes the numerator. If the denominator and the whole number have the same value, the answer will be 1.

8. $25 \times 6 = 150\ cm^2$

9. $500 \times 1.5 = \$500 + \$250 = \$750$

10. $\$750 + \$0.75 = \$750.75$

Section 7.2

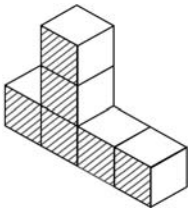
1. $240\ cm^3$

2. $240\ cm^3$. Answers will vary. Example: The volume of a prism is the same, no matter which base you sit it on.

3. $20\ cm^3$

4. $550\ cm^3$

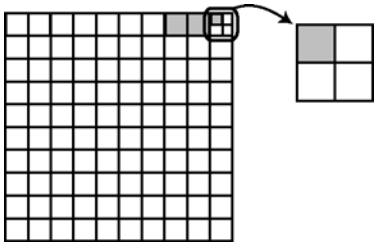
5.



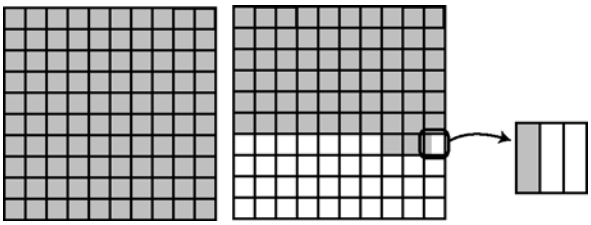
6. a) $\$25 + \$12.50 = \$37.50$ **b)** \$7.50

7. $22.\overline{2}\%$

8.



9.



10. $7^2 = 49$; $8^2 = 64$; $\sqrt{58} \approx 7.6$

Section 7.3

1. $9.22\ m^3$

2. $3600\ m^3$

3. $49\ cm^3$

4. $36.8\ cm^3$

5. Area of triangular sections: $A = (3.5 \times 7 \div 2) \times 2$; $A = 24.5\ cm^2$. Area of two flat sections: $A = 4 \times 7.8 \times 2$; $A = 62.4\ cm^2$. Area of end: $A = 3.5 \times 4$; $A = 14\ cm^2$. Total Area = $100.9\ cm^2$

6. Area of triangular sections: $A = (4 \times 7 \div 2) \times 2$; $A = 28\ cm^2$. Area of two flat sections: $A = 4 \times 8 \times 2$; $A = 64\ cm^2$. Area of end: $A = 3 \times 4$; $A = 12\ cm^2$. Total Area = $104\ cm^2$

7. 4

8. 2

9. 150.1%, 1.501

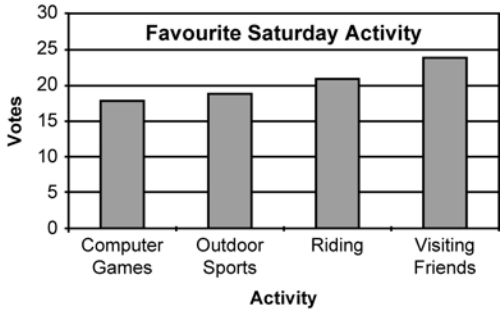
10. $\frac{2}{3}$

Section 7.4

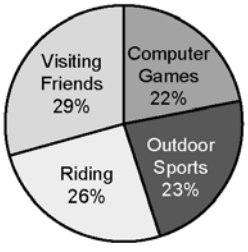
1. Estimates may vary. Example: $(30 \times 30 \times 3) \times 10 = 27\,000\ cm^3$. Calculation: $(25.8 \times 25.8 \times 3.14) \times 10.2 = 21\,319.117$. The answer is $21\,319\ cm^3$.

2. Estimates may vary. Example: $(3 \times 3 \times 3) \times 10 = 270\ m^3$. Calculation: $(3 \times 3 \times 3.14) \times 10 = 282.6$. The answer is $283\ m^3$.

3.



4. **Favourite Saturday Activity (82 votes)**



5. Answers will vary. Example: Because the numbers are so close, the bar graph does a better job of displaying the differences between sectors. On the other hand, the circle graph emphasizes the closeness of each option.

6. 10 cm

7. 120 cm^2

8. $\frac{4}{6} = \frac{12}{18} = \frac{20}{30}$

9. $3\frac{1}{2} = \frac{7}{2} = \frac{14}{4}$

10. $\frac{\$7.50}{3} = \frac{\$2.50}{1} = \frac{\$25}{10}$