ML8 Chapter 8 Warm-Up Answers

BLM 8–3 Chapter 8 Warm-Up

Section 8.1

1. 168 cm^3
2. 12 000 cm^3
3. 1570 cm^3
4. $\frac{12}{10} = 1\frac{1}{5}$
5. $\frac{10}{7} = 1\frac{3}{7}$
6. The spider. Answers will vary. Example: The Japanese beetle has a fraction of the number of legs the spider has.
7. Less than. Answers will vary. Example: You are cutting the fraction into three pieces. Each piece will be smaller than the original fraction.
8. Equal to. Answers will vary. Example: The value of any number divided by 1 does not change.
9. Less than. Answers will vary. Example: You are taking a fraction of the number.
10. Equal to. Answers will vary. Example: The value of any number multiplied by 1 does not change.

Section 8.2

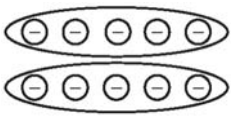
1. (−4) + (−4) + (−4) + (−4) + (−4)
2. (+2) × (−3) = −6
3. (−2) × (+4) = −8
4. +12
5. −15
6. Less than. Answers will vary. Example: $\frac{1}{2}$ is being cut into pieces. Each piece will be smaller than what you started with.
7. Less than. Answers will vary. Example: You are finding a fraction of a fraction. The answer will be less than either fraction.
8. Greater than. Answers will vary. Example: You are trying to find out how many of the fraction will fit in a natural number, so the answer is greater than the number because the fractions are less than 1.
9. Less than. Answers will vary. Example: This is like dividing a natural number by more than 1, so the answer is less than what you started with.
10. $\frac{17}{3} = 5\frac{2}{3}$

Section 8.3

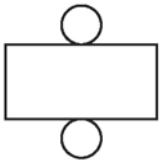
1. ≈ −70; −77
2. ≈ 3000; +2850
3. ≈ 140; +154
4. ≈ −600; −588
5. $1\frac{1}{2}$
6. $125
7. $13
8. 59.4
9. 160
10. $9

Section 8.4

1. a) Answers will vary. Example: +4 and −4
b) Answers may vary. Example: They add to 0.
2. (−9) ÷ (−3) = +3
3.



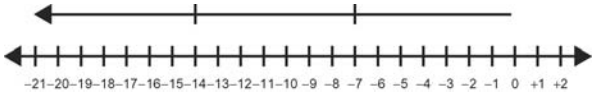
4. −1
5. a) Answers will vary. Example:



b) 2009.6 cm^2
6. 6
7. 100
8. 9
9. 8
10. 121

Section 8.5

1.



2. −17
3. −3
4. +9
5. 6990 cm^2
6. ≈ 120 cm
7. ≈ 240 cm
8. ≈ 300 cm^2
9. ≈ 1200 cm^2
10. No. Answers will vary. Example: I know that it is not a right triangle because the area of the squares on the two smaller sides does not equal the area of the square on the longer side.