**CASTLE LEARNING ASSIGNMENT 8A**

1.  Nikki read 896 pages of her book this week. How many pages is this per day?

Answer:  \_\_\_\_\_\_\_ pages per day

2.  A cart travels a distance of 3.6 meters in 1.8 seconds. The average speed of the cart is:

 Answer:  \_\_\_\_\_\_\_meters per second.

3.  Express the ratio of 300 miles to 4 hours as a unit rate.

Answer:  \_\_\_\_\_\_\_ miles per hour

4.  Write the ratio 42 : 4 in simplest form:

Answer:  \_\_\_\_\_\_\_ : \_\_\_\_\_\_\_

5.  Brett is a used-car dealer. Brett has 17 Hondas, 15 Fords, 12 Toyotas, and 10 Dodges on his car lot. What is the ratio of the number of Fords to the number of Hondas?

Answer:  \_\_\_\_\_\_\_ : \_\_\_\_\_\_\_

6.  There are 15 boys and 45 girls competing in a race. What is the ratio of girls to boys in the race, in lowest terms?

Answer:  \_\_\_\_\_\_\_ : \_\_\_\_\_\_\_

7.  Solve for *x*:  = 

*x* = \_\_\_\_\_\_\_

8.  Solve the proportion:  = .

*m* = \_\_\_\_\_\_\_

9.  Solve the proportion for *b*:  = 

*b* = \_\_\_\_\_\_\_

10. At the grocery store, you can purchase loose lemons at 2 for $0.99. You can also buy a bag of 6 lemons for $2.50. Which is the better buy?

1. 2 for $0.99
2. bag of 6

11.  Can the ratios  and  make a proportion?

1. yes
2. no
3. cannot tell

12.  What is the difference between 10 and 5.13?

Answer:  \_\_\_\_\_\_\_\_

13.  What is the value of |34|?

Answer:  \_\_\_\_\_\_\_

14.  Which lists the integers correctly from *greatest* to *least?*

1. -19, -16, -6, 6, 14, 19
2. -6, -16, -19, 6, 14, 19
3. 19, 14, 6, -19, -16, -6
4. 19, 14, 6, -6, -16, -19

15.  Carla says that 4 × (5 × 6) is the same as (4 × 5) × 6. Carla is correct because this is an example of the \_\_\_\_\_\_\_\_.

1. distributive property
2. identity property of multiplication
3. commutative property of multiplication
4. associative property of multiplication