Unit 1 Practice Quiz Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 8 – 4(2 – 5) + 7 2)-3x + 10 = -20

3) 1/2x - 5 = 5

1. Solve for x: 3x + 6(x + 2) = 6x + 21
2. 8 pts = \_\_\_\_\_\_ gallons
3. Christina’s dog weighs 15,000 grams. Christina must give her dog some medicine. The directions tell her to give the dog one dose for every 5 kilograms the dog weighs. How many doses does her dog need?
4. Bobby needs to convert 50 miles per hour into feet per second. Show the process.
5. If John drinks 10 cups of water a day, how many quarts per week is that?
6. Given the expression, 4x5 + 10,
7. Identify the constant \_\_\_\_\_\_\_\_
8. Identify the coefficient \_\_\_\_\_\_\_\_
9. Identify the exponent \_\_\_\_\_\_\_\_
10. Translate the statement into an algebraic expression:
11. 15 less than 3 times a number
12. The sum of a number and 6, divided by 5

ANSWER KEY

1. 27

2. 3

3. 1

4. 3 doses

5. 73.3 ft/sec

6. 17.5 qt/week

7. a) 10 b) 4 c) 5

8. a) 3x – 15 b) (x+6)/5