

Name: \_\_\_\_\_ Period: \_\_\_\_\_

Week 29 Homework Packet – 7<sup>th</sup> Grade Math

**ASSIGNMENT DUE TUESDAY, MARCH 14, 2017**

Unit 3, Chapter 5 – Expressions

Score

/4

Week Score

/12

Stamp

Factor the following expressions. If it cannot be factored, write “prime.”

1)  $3a + 12b$

2)  $15k - 25$

3)  $20x - 50y$

4)  $24m + 10n$

5)  $36y + 30$

6)  $25a + 16b$

7)  $12c - 20d$

8)  $24x - 36y$

Simplify the following expressions. **Show all work!**

9)  $3(x + 3y) - (2x - 4y)$

10)  $-2(-a + 3b) + (4a - b)$

11)  $3(2r + 5) - 2(r - 1)$

12)  $(3c + 4d) + 2(6c - 8d)$

Name: \_\_\_\_\_ Period: \_\_\_\_\_

7<sup>th</sup> Grade Math

**ASSIGNMENT DUE WED/THU. MARCH 15/16. 2017**

Unit 3, Chapter 5 – Expressions

Score

/4

Stamp

Factor the following expressions. If it cannot be factored, write “prime.”

1)  $10c + 25d - 15$

2)  $24r^2 - 10r + 9$

3)  $20a - 16b + 32$

4)  $15mn - 12n + 24m$

5)  $35x^2 - 28y^2$

6)  $16c - 15d$

7)  $24q^2 - 12qr + 10r^2$

8)  $36s + 18t - 27$

Evaluate each of the following expressions if  $a = 4$ ,  $b = 10$ , and  $c = -5$

9)  $3a + 7$

10)  $2b - a$

11)  $a - c$

12)  $a + b + c$

13)  $ab$

14)  $\frac{2b}{a}$

15)  $3c - b$

Name: \_\_\_\_\_ Period: \_\_\_\_\_

7<sup>th</sup> Grade Math

Score

/4

Stamp

**ASSIGNMENT DUE FRIDAY, MARCH 17, 2017**

Unit 3, Chapter 5 – Expressions

1) You are opening a lemonade stand and spend \$60 on materials for the stand. You will sell lemonades for 75¢ each. How much money (in dollars) will you earn in profit if you sell  $c$  cups of lemonade?

2) A plumber charges \$50 per visit, plus an additional \$25 per hour of work. How much will the plumber charge in total if the job requires  $h$  hours to complete?

3) You borrow \$50 and plan to pay \$5 per week until the debt is paid off. How much will you still owe after  $w$  weeks?

4) You are saving up to buy a \$400 laptop computer. If you have \$65 in your savings account and earn \$20 per week walking dogs, how much money will you have saved after  $w$  weeks?

5) A phone game will give you 200 experience points every consecutive day that you log in. If you currently have 1,100 experience points, how many will you have if you log in for  $d$  consecutive days?

For each arithmetic sequence below, write an expression to find the  $n$ th term of the sequence.

6) 4, 8, 12, 16, 20, ...

7) 11, 19, 27, 35, 43, ...

8) 2, 6, 10, 14, 18, ...

9) 10, 8, 6, 4, 2, ...

10) -3, -5, -7, -9, -11

11) 8, 17, 26, 35, 44, ...

12) 1, -3, -7, -11, -15, ...