**7th Grade Math Homework due Friday, Sept. 11, 2015**

***Add and Subtract Integers***

**Add or subtract.**

 **1.** 6 + (−5) **2.** –13 – 48 **3.** 75 – 98

 **4.**  –25 + (–6) **5.** –54 + 34 **6.** 29 – 61

 **7.** 50 + (–16) – 5 **8.** –8 – 9 + 17 **9.** –27 – (–5) – 12

 **10.** 4 + (–7) + 55 **11.** –68 – 1 + (–6) **12.** 99 – (–30) + 43

**13.** In Juneau, Alaska, the temperature was −15°F in the afternoon. As a cold front approached, the temperature dropped 9°F. Write a subtraction expression to determine the new temperature. Then determine and interpret the difference.

**14.** Bob owed $225 on his store credit card. He made a payment of $75, and then he spent $40 more with his credit card. Write an expression to describe the total change in the credit card balance. Then determine what integer represents the final balance of Bob’s credit card.

**15.** Danny’s youth football team gained 5 yards on a play, lost 9 yards on the next play, then gained 3 yards on the third play. Write an addition expression to describe the total change of yardage. Then determine the sum and explain its meaning.

***Multiply and Divide Integers***

**Determine the value of each expression.**

 **1.** 6(–9) **2.** $\frac{–48}{4}$ **3.** 75 ÷ (–5)

 **4.** –24(3) **5.** $\frac{–64}{–2}$ **6.** $\frac{–28 + 4}{2}$

 **7.** 7(–6)(3) **8.** –86 ÷ 2 **9.** $\frac{53 + (–9)}{–11}$

 **10.** 7(–9)(4) **11.** –8(–5)(–6) **12.** $\frac{–121}{11}$

**13.** During a seven-day period, the temperature dropped 49°F. Write a division expression to represent the change. Then determine the average daily change in the temperature.

**14.** A dealership has 42 cars that are last year’s model that they still need to sell. Because they are last year’s model, each of these cars has depreciated $1,200 in value. Write a multiplication expression to determine the total change in the value of these cars at the dealership.

**15.** Denise monitored the activity in her savings account for the past several months. She records the following transactions: $500 deposit, $280 withdrawal, $150 deposit , $300 withdrawal, $25 bank fee, and $30 withdrawal. Write and evaluate an expression to determine the average transaction amount.