Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ November 15, 2017

Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Math 8

**Writing Linear Equations – Day 1**

1. Mr. Ring had 95 updates on Facebook. Every day he gets 43 more.
   1. Initial Amount:
   2. Increasing/Decreasing
   3. Rate:
   4. Write a linear equation that represents this situation.
   5. How many updates will Mr. Ring have after 23 days?
2. Jason has 514 pictures on his computer. Each month he deletes 21.
   1. Initial Amount:
   2. Increasing/Decreasing
   3. Rate:
   4. Write a linear equation that represents this situation.
   5. How many pictures will remain on his computer after 14 months?
3. Jackie has 120 text messages on her phone. Every day she gets 15 more.
   1. Initial Amount:
   2. Increasing/Decreasing
   3. Rate:
   4. Write a linear equation that represents this situation.
   5. How many text messages will Jackie have after 22 days?
4. Lisa is tracking the progress of her plant's growth. Today the plant is 5 cm high. The plant grows 1.5 cm per day.
   1. Initial Amount:
   2. Increasing/Decreasing
   3. Rate:
   4. Write a linear equation that represents the height of the plant (y) after x days
   5. What will the height of the plant be after 20 days?