Name: _____

Solve the following problems **without a calculator**. You _MUST_ show your work.  ***NO WORK = NO CREDIT.***

| | |
|---|---|
| 1.  Simplify.<br><br>   -4 (3x - 3) + 9 (x + 1) | 2.  Write two formulas that can be used to find the circumference of a circle. Label each part. |
| 3.  Describe a similarity and a difference between radius and diameter. | 4.  Mindy is mailing a package that weighs 9 pounds. She adds a book to the package that weighs 3 pounds.  What is the percent of increase in the weight of the package?  (Round to the nearest whole percent.) |
| 5. Two supplementary angles are labeled: 4x - 3 and 2x. What is the measure of the larger angle? | 6. Two complementary angles are labeled: 5y and y - 5 .  What is the measure of the smaller angle? |

Solve the following problems. You _MUST_ show your work.  ***NO WORK = NO CREDIT.***

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|---|---|
| 1.  What does it mean to find the area or circumference of a circle "in terms of pi"? | 2.  A circle has a diameter of 30 centimeters.  What is the circumference?  Use 3.14 for pi. |

| | |
|---|---|
| 3. Kalyn put $2,500 in a savings account at a simple interest of 3.9%. If Kalyn does not add or remove any money from the savings account, how much money will she earn after 6 years? | 4. How would the circumference and area of a circle change if the radius is doubled? |
| 5. What is the area of a circle with a radius of 15.4mm? | 6. There is a circular garden along the side of a garage. What does the length of the fencing around the garden represent? |

## Homework - Thursday (March 9, 2017)

Solve the following problems **without a calculator**. You _MUST_ show your work. *NO WORK = NO CREDIT.*

| | |
|---|---|
| 1. Write the steps needed to find the radius of a circle when given the area. | 2. Write the steps to find the diameter of a circle when given the circumference. |
| 3. The radius of a circle is 12cm. What is the circumference of the circle in centimeters? Express your answer in terms of pi. | 4. Find the area of a circle whose diameter is 10 cm. Use 3.14 for pi. |