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

**WEEK 16 HW**

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

**Homework – Monday**

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| 1. What is the compliment of an angle that measures 28o? | 2. What is the supplement of an agle that measures 117o? |
| 3. **A map is shown below.****What is the actual distance between Big Town and Small Grove, if they are 2.5in apart on the map?** | 4. A photograph was reduced using the scale factor of ⅔. The original photograph was 9 inches wide and 12 inches long. Which proportion could be used to find *w*, the width of the reduced photograph?A) 9 = 2 C) 12 = 2 w 3 w 3B) w = 2 D) w = 2 9 3 12 3 |

**Homework – Tuesday**

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| 1. Explain the difference between complementary and supplementary angles. | 2. Explain the difference between adjacent and vertical angles. |
| 3. Find the value of x. | 4. A scale drawing of a room used a scale of 2.75 inches = 5 feet. An object is 4 inches long in the drawing. What is the approximate length of the actual object? (Round to the nearest hundredth.) |

**Homework - Wednesday**

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| 1. Given the value of the missing angle measures:

|  |  |  |  |
| --- | --- | --- | --- |
| **Angle** | **Compliment** | **Supplement** | **Vertical** |
| **35o** |  |  |  |
| **86o** |  |  |  |

 | 2. Find the value of x. |
| 3. The two triangles are similar what is the missing side? | 4. Use the formula a2 + b2 = c2 to find the missing side length. (Round to the nearest tenth.) |

**Homework - Thursday**

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| 1. Find the value of x. | 2. Which angles are congruent? |
| 3. Write an equation that would be used to find the supplement of a given angle. | 4. Write an equation that would be used to find the complement of a given angle. |