Wootton Geometry / Regular & Honors Geometry Summer Review Assignment

This assignment is a review of skills that you should have learned that will be needed to be successful in Geometry or Honors Geometry next year. You should answer all questions and SHOW ALL WORK. We will expect you to come to class in the fall knowing this material and ready to learn Geometry.

This assignment will be collected on the third day of school.

Put the answers to each problem in the answer column on the left.

A. Solve each linear equation

_____ 1. $3x + 8 = 7x - 16$

_____ 2. $2x - 25 = 7x$

_____ 3. $-4(3 - x) = 2(x + 6)$

_____ 4. $3x - 5(x + 6) = 0$

_____ 5. $6x + 7 - 2x + 4 = 2x + 6$

_____ 6. $\frac{x}{5} = \frac{12}{25}$

_____ 7. $\frac{6}{x+3} = \frac{4}{3x-7}$

_____ 8. $\frac{x+1}{3} = \frac{x}{5}$

B. Multiply

_____ 1. $3x(2x - 5)$

_____ 2. $(x - 9)(x + 8)$

_____ 3. $(x + 16)(x + 4)$

_____ 4. $(2x - 1)(x + 5)$

_____ 5. $(x - 7)^2$

C. Find the indicated measures

_____ 1. For a circle with radius 9 cm., find the circumference and area, in terms of л

_____ 2. For a circle with circumference 22л cm., find the radius and area, in terms of л

D. Factor completely

_____ 1. $x^2 - 25$

_____ 2. $x^2 - 9x + 14$

_____ 3. $x^2 - 2x - 15$

_____ 4. $x^2 + 10x + 24$

_____ 5. $2x^2 + 10x$

_____ 6. $6x^2 - 15x$

E. Factor and then solve each – remember to get each = 0 first

_____ 1. $x^2 + 3x - 28 = 0$

_____ 2. $x^2 - 49 = 0$

_____ 3. $x^2 - 16x + 64 = 0$

_____ 4. $x^2 + 4 = 2x + 7$

_____ 5. $x^2 = 6x - 8$

F. Solve by quadratic formula - remember: $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

_____ 1. $x^2 + 3x - 5 = 0$

_____ 2. $x^2 - 5x + 2 = 0$

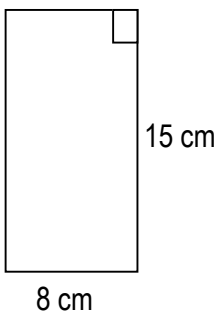
G. Find the perimeter and area of each

_____ 1.

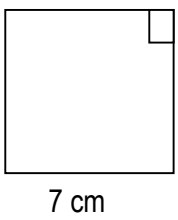
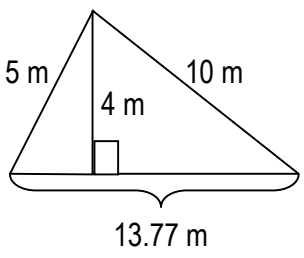
_____ 2.

_____ 3.

1. Rectangle



2. Square



3. Triangle