Honors Geometry Review Quiz 16

Name _____

_____1. What is the perimeter of a square with an area of 25 cm^2?
   A. 20 cm   B. 25 cm   C. 50 cm   D. 625 cm

_____2. Which equation would be perpendicular to the $y = -\dfrac{1}{7}x + 3$?

   A. $y = -\dfrac{1}{7}x - 3$ B. $y = \dfrac{1}{7}x + 3$ C. $y = 7x - 5$ D. None of the above

_____3. In my class, everyone plays either golf or tennis. 14 play golf and 8 play tennis.
   If 3 play both tennis and golf, how many kids are in my class?
   A. 17   B. 19   C. 22   D. 25

_____4. In $\triangle ABC, \angle A = 3n, \angle B = 5n - 30, \angle C = 2n + 10$. What is the measurement of $\angle A$?
   A. 20°   B. 40°   C. 60°   D. 80°

_____5. In $\triangle RST \; \angle R = 4x + 20, \; \angle S = 5x$, and $\angle T = x + 60$. Choose the list of sides of $\triangle RST$ that
   are ordered correctly from longest to shortest.
   A. $\overline{TR}, \overline{RS}, \overline{ST}$ B. $\overline{ST}, \overline{RS}, \overline{TR}$ C. $\overline{RS}, \overline{ST}, \overline{TR}$ D. $\overline{ST}, \overline{TR}, \overline{RS}$

_____6. Which below is a possible measurement for an isosceles triangle?
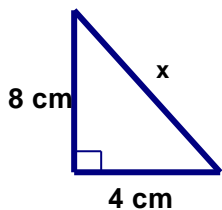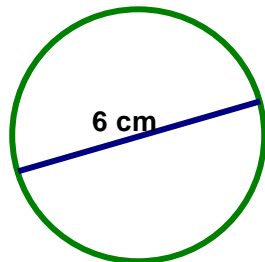   A. 4, 4, 8   B. 7, 7, 13   C. 2, 2, 5   D. 1, 1, 2

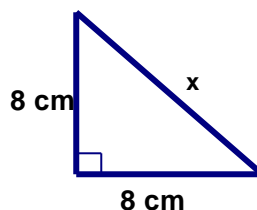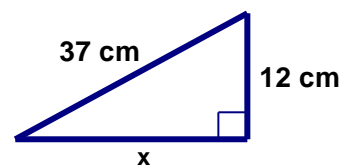| Figure 1 | Figure 2 | Figure 3 | Figure 4 |

_____7. What is the value of x in figure 1 above? (Round answer to the nearest tenth.)
   A. 8.9   B. 9.9   C. 10.9   D. 11.9

_____8. What is the area of figure 2 above? (Round answer to the nearest tenth.)
   A. 18.8 cm^2 B. 28.3 cm^2 C. 37.7 cm^2 D. 113.1 cm^2

_____9. What is the value of x in figure 3 above?
   A. 8.9   B. 11.3   C. 12.3   D. 14.2

_____10. What is the value of x in figure 4 above?
   A. 33.9   B. 35   C. 37   D. 38.9