Geometry Review Quiz 29

Name _____

_____1.   In $\triangle ABC$ $\angle A = 8x+12$, $\angle B = 15x-40$, and $\angle C = 10x+10$.
Determine the longest side of $\triangle ABC$.
A. $\overline{AB}$ B. $\overline{AC}$ C. $\overline{CB}$ D. $\angle A$

_____2.   What equation would be perpendicular to $y = 2x + 5$

A. $y = -x - 5$ B. $y = -2x - 5$ C. $y = -\dfrac{1}{2}x - 5$ D. $y = \dfrac{1}{2}x - 5$

_____3.   What is the distance from (1, 5) to (7, 6)?
A. $\sqrt{37}$ B. $\sqrt{23}$ C. $\sqrt{24}$ D. None of the above

_____4.   I coach both soccer and tennis, which means I coach a total of 28 players. On my soccer
team, there are 22 players with 6 of the 22 also playing tennis for me. How many total
tennis players do I have? (Draw a Venn diagram to help you!)
A. 6   B. 10   C. 12   D. 14

_____5.   If $\triangle ABC$ is an isosceles triangle with AC = BC and $\angle A = 40°$, what is $\angle B$?
A. 40°   B. 70°   C. 80°   D. None of the above

_____6.   If $\triangle ABC \cong \triangle XYZ$, AB = 38, YZ = 28, and XY = 5x + 8, what is the value of x?
A. 30   B. 20   C. 6   D. 4

_____7.   If in $\triangle CWH$ $\angle W = \angle H$ what can you conclude?
A. CW = WH   B. CH = CW   C. CH = WH   D. $\angle C = 100°$
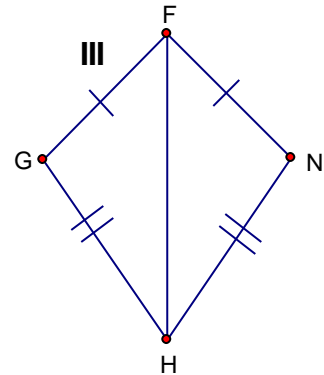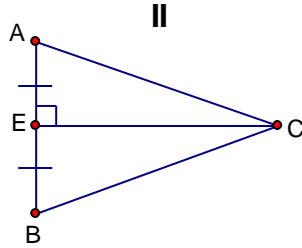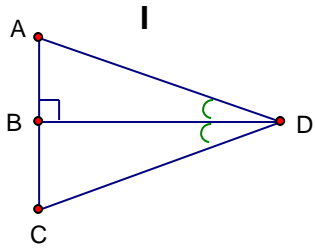
_____8.   In picture I above, what allows you to immediately conclude that $\triangle ABD \cong \triangle CBD$?
A. ASA   B. SAS   C. AAA   D. SAA

_____9.   In picture II above, what allows you to immediately conclude that $\triangle AEC \cong \triangle BEC$?
A. ASA   B. SAS   C. AAA   D. SAA

_____10.   In picture III above, what allows you to immediately conclude that $\triangle FGH \cong \triangle FNH$?
A. SSS   B. SAS   C. AAA   D. SAA