Special Right Triangle Investigation Name_____HR__

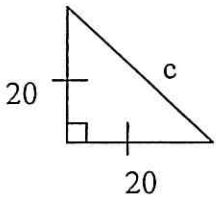
1. List the perfect squares from 1 to 100.

2. Simplify each of the following radicals.

$\sqrt{18}$ $\sqrt{27}$ $\sqrt{8}$ $\sqrt{12}$

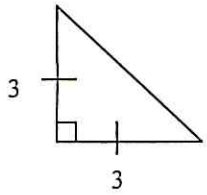
$\sqrt{50}$ $\sqrt{75}$ $\sqrt{72}$ $\sqrt{108}$

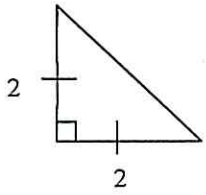
45°-45°-90° Triangles are Isosceles Right Triangle with 2 legs of equal length.

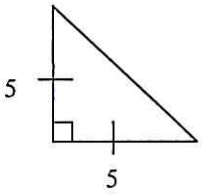


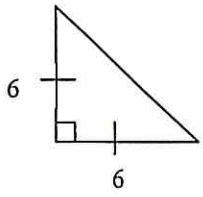
$20^2 + 20^2 = c^2$

3. Use the Pythagorean Theorem to find the hypotenuse of the following triangles.









4. Did you find a pattern? Use the pattern to label the missing sides of the following 45°-45°-90° triangles.