Name _____

Triangle Discovery

For each problem, arrange three squares of the given side lengths to form a triangle. Complete the tables to compare the areas. Then determine the type of triangle (acute, right, or obtuse).

Lengths of Sides		
a	b	c
3	4	5
a^2+b^2		c^2

Compare a^2+b^2 and c^2 using >, <, or =.

a^2+b^2 _____ c^2

Type of triangle:

_____

Lengths of Sides		
a	b	c
5	7	9
a^2+b^2		c^2

Compare a^2+b^2 and c^2 using >, <, or =.

a^2+b^2 _____ c^2

Type of triangle:

_____

Lengths of Sides		
a	b	c
6	8	10
a^2+b^2		c^2

Compare a^2+b^2 and c^2 using >, <, or =.

a^2+b^2 _____ c^2

Type of triangle:

_____

Lengths of Sides		
a	b	c
5	8	10
a^2+b^2		c^2

Compare a^2+b^2 and c^2 using >, <, or =.

a^2+b^2 _____ c^2

Type of triangle:

_____

Lengths of Sides		
a	b	c
3	5	7
a^2+b^2		c^2

Compare a^2+b^2 and c^2 using >, <, or =.

a^2+b^2 _____ c^2

Type of triangle:

_____

Lengths of Sides		
a	b	c
5	12	13
a^2+b^2		c^2

Compare a^2+b^2 and c^2 using >, <, or =.

a^2+b^2 _____ c^2

Type of triangle:

_____

Lengths of Sides		
a	b	c
7	9	10
a^2+b^2		c^2

Compare a^2+b^2 and c^2 using >, <, or =.

a^2+b^2 _____ c^2

Type of triangle:

_____

Lengths of Sides		
a	b	c
4	5	6
a^2+b^2		c^2

Compare a^2+b^2 and c^2 using >, <, or =.

a^2+b^2 _____ c^2

Type of triangle:

_____