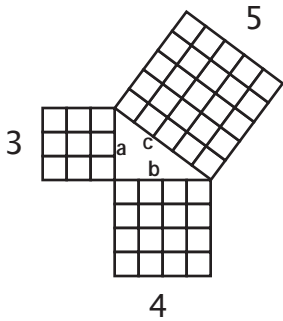
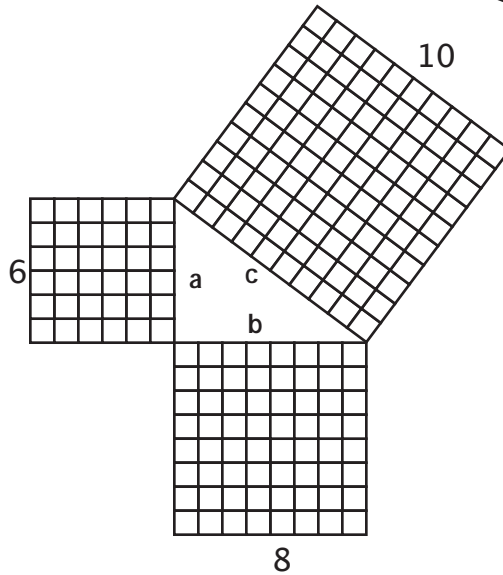


MathFLIX CHALLENGE **Pythagorean Theorem** $a^2 + b^2 = c^2$

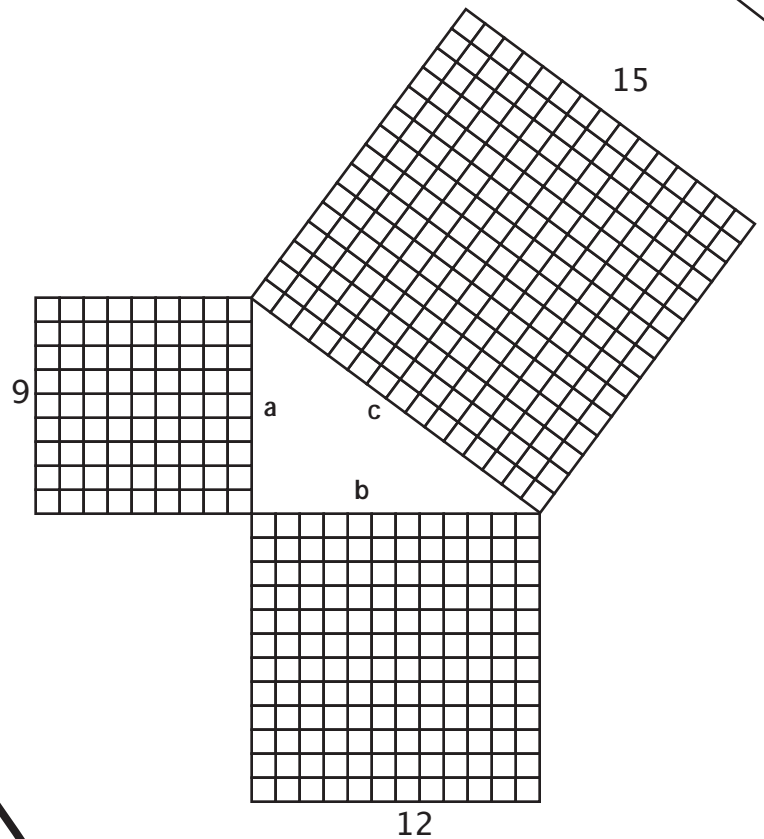
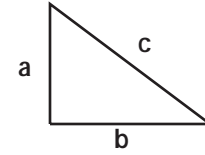
Use the models below to **see** what the Pythagorean Theorem means. Color a^2 with red and b^2 with blue. Then, in c^2 , color as many squares with red as you did in a^2 . Then, also in c^2 , color as many squares with blue as you did in b^2 .



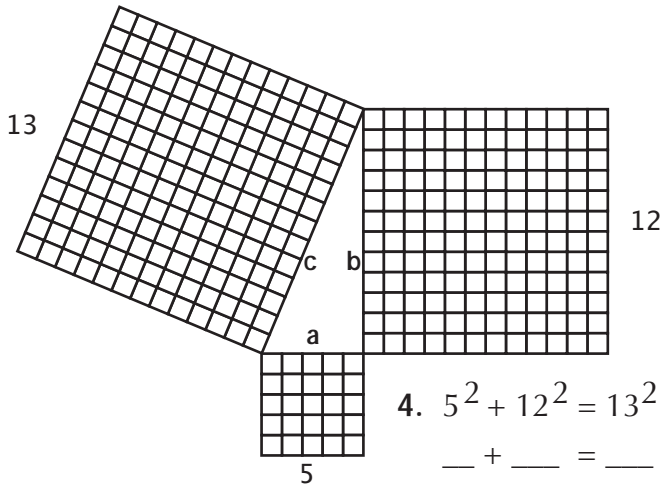
1. $3^2 + 4^2 = 5^2$
 $9 + 16 = 25$



2. $6^2 + 8^2 = 10^2$
 $_ + _ = _$



3. $9^2 + 12^2 = 15^2$
 $_ + _ = _$



4. $5^2 + 12^2 = 13^2$
 $_ + _ = _$

Use $a^2 + b^2 = c^2$ to prove that the following lengths create a right triangle:

a	b	c
12	16	20
15	20	25
10	24	26
15	36	39