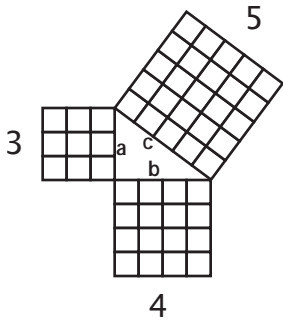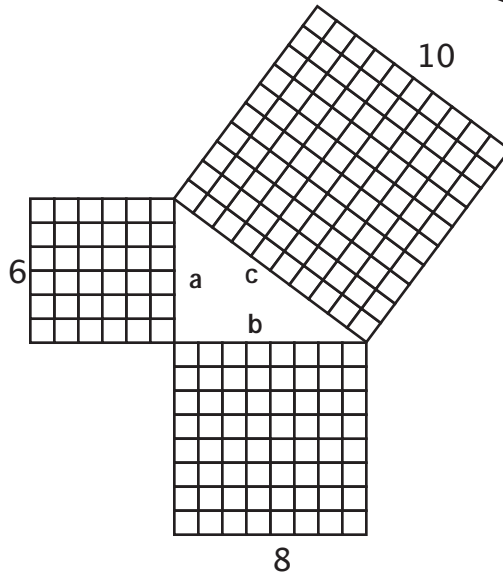# MathFLIX CHALLENGE Pythagorean Theorem - Coloring Proof #2
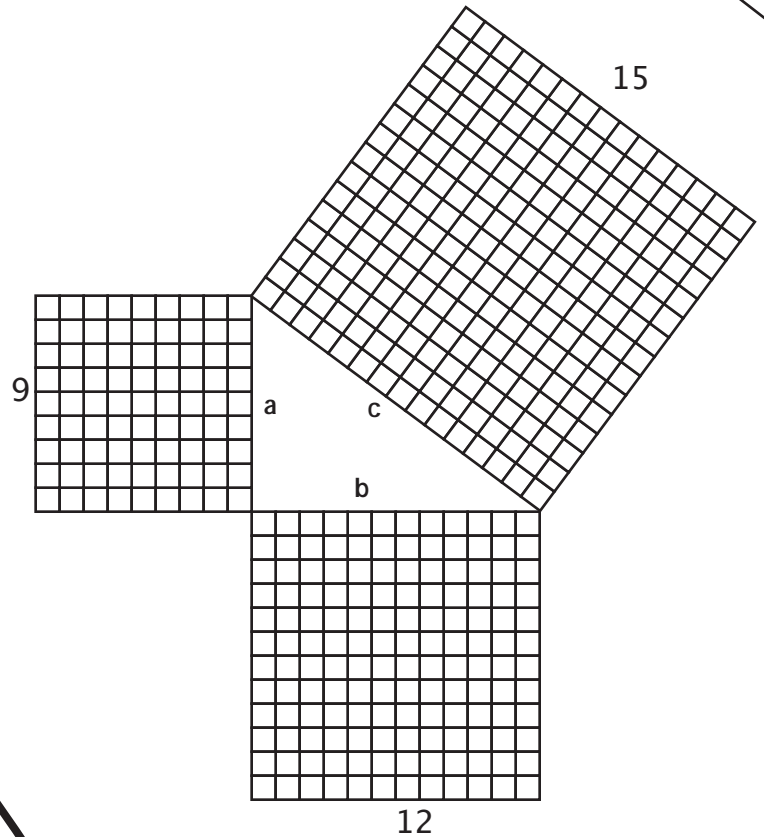
Use the models below to **see** what the Pythagorean Theorem means. Color a^2 with red and b^2 with blue Then, in c^2, color as many squares with red as you did in a^2. Then, also in c^2, color as many squares with blue as you did in b^2.
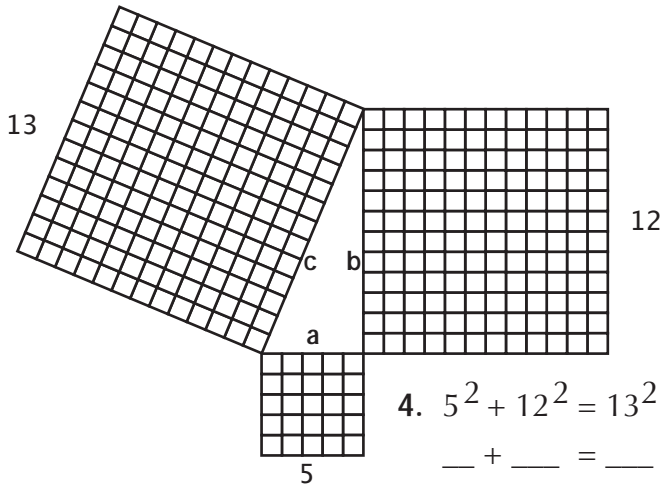
1. $3^2 + 4^2 = 5^2$

$9 + 16 = 25$

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

__ + __ = __

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

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

__ + ___ = ___