

Subtask 2: Explore why the Pythagorean Theorem is true and other related concepts

Time:
10-15 minutes

Grouping:
4 groups

Group 1 Materials & Prep:

- 2x[4congruent triangles with area $ab/2$]
- 2x[Large square with area $(a+b)^2$ drawn on grid chart paper]
- Pencil and eraser
- tiles

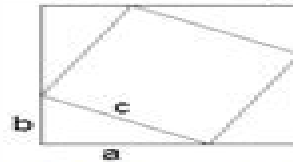
Lesson: Each group will be given the materials specified and will be asked to use them to explore how they might prove the theorem

Group 1: Geometric Proof

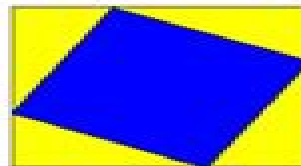
<https://www.mathopenref.com/pythagorasproof.html>

Instruction:

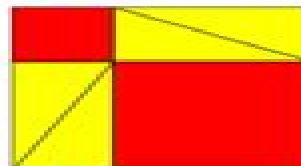
"Manipulate the 4 triangles in the square provided to show that $a^2 + b^2 = c^2$ "



the empty square in the middle has area of c^2 .



rearrange the triangles



The empty square at the top has an area of a^2 . The empty square at the bottom has an area of b^2 . The two areas cover the same as c^2 . Therefore, c^2 must equal a^2 plus b^2 .

Extension:

a) How can you represent this algebraically?

$$(a + b)^2 = 4 \cdot ab/2 + c^2$$

$$c^2 = (a + b)^2 - 4 \cdot ab/2$$

$$2c^2 = 2a^2 + 2b^2$$

$$c^2 = a^2 + b^2$$

Pythagorean Theorem Lesson 4 8

Wolfgang Guggemos



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
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