

Pythagorean Theorem

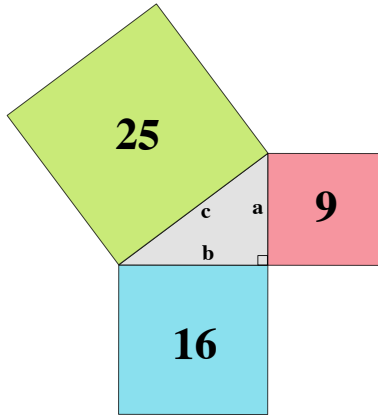
Modeling the Pythagorean Theorem

Math Worksheet 23



Name: _____

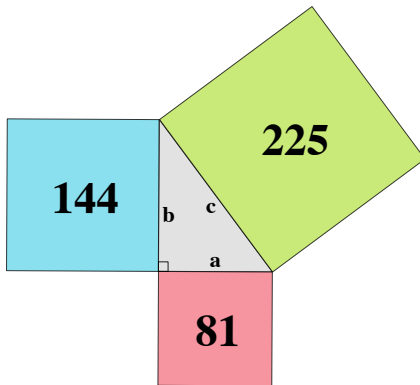
Find the lengths of the sides of the triangle in the middle. Show your solutions.



side a length

side b length

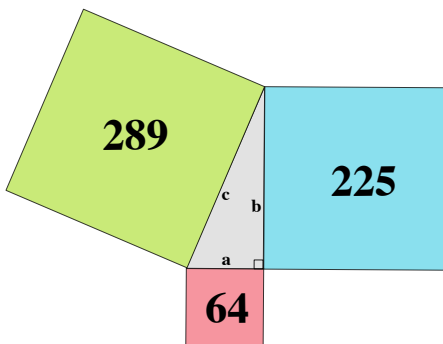
side c length



side a length

side b length

side c length



side a length

side b length

side c length

Pythagorean Theorem

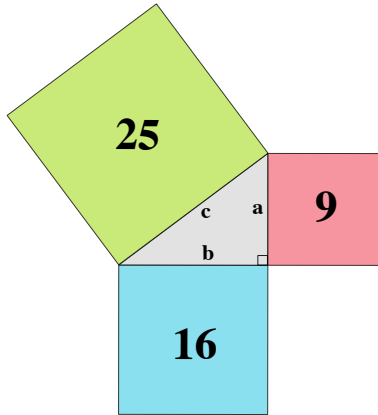
Modeling the Pythagorean Theorem

Math Worksheet 23



Name: ANSWER KEY

Find the lengths of the sides of the triangle in the middle. Show your solutions.



$$\begin{aligned} a^2 &= 9 \\ a &= \sqrt{9} \\ a &= 3 \end{aligned}$$

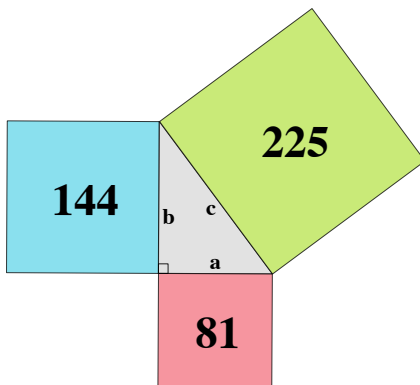
$$\begin{aligned} b^2 &= 16 \\ b &= \sqrt{16} \\ b &= 4 \end{aligned}$$

$$\begin{aligned} c^2 &= 25 \\ c &= \sqrt{25} \\ c &= 5 \end{aligned}$$

side a length

side b length

side c length



$$\begin{aligned} a^2 &= 81 \\ a &= \sqrt{81} \\ a &= 9 \end{aligned}$$

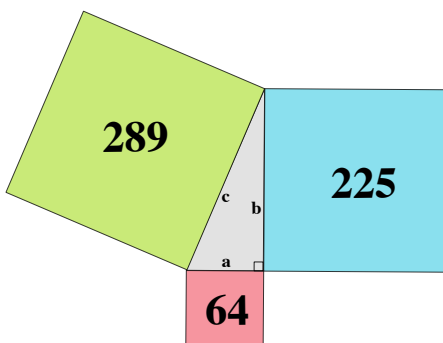
$$\begin{aligned} b^2 &= 144 \\ b &= \sqrt{144} \\ b &= 12 \end{aligned}$$

$$\begin{aligned} c^2 &= 225 \\ c &= \sqrt{225} \\ c &= 15 \end{aligned}$$

side a length

side b length

side c length



$$\begin{aligned} a^2 &= 64 \\ a &= \sqrt{64} \\ a &= 8 \end{aligned}$$

$$\begin{aligned} b^2 &= 225 \\ b &= \sqrt{225} \\ b &= 15 \end{aligned}$$

$$\begin{aligned} c^2 &= 289 \\ c &= \sqrt{289} \\ c &= 17 \end{aligned}$$

side a length

side b length

side c length