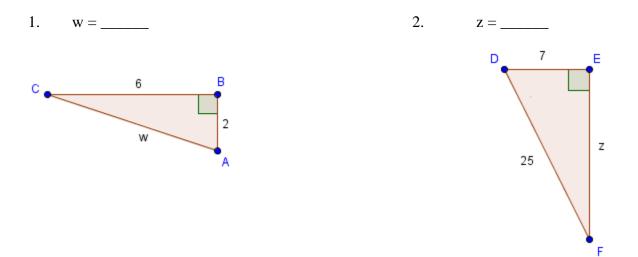
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## Geometry – Pythagorean Theorem Warm-Up

Directions: Using what you know about Pythagorean Theorem, find the missing variables.

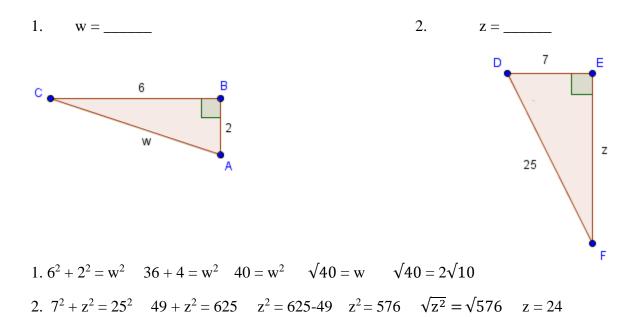


3. Now, consider your answer for z in #2. Write a mathematical argument to justify your answer.

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**Geometry – Pythagorean Theorem Warm-Up** 

Directions: Using what you know about Pythagorean Theorem, find the missing variables.



3. Now, consider your answer for z in #2. Write a mathematical argument to justify your answer.

Because the triangle in #2 is a right triangle, I can use the Pythagorean Theorem to solve for z. I knew I was solving for a leg, so I can put z in for "b" in the Pythagorean Theorem. I set up the equation as  $7^2 + z^2 = 25^2$  and solved to get z = 24.

The answer should include:

- Using the Pythagorean Theorem because it's a right triangle
- Identifying the missing side as either the leg or hypotenuse, and connecting it to their equation ("leg means a or b", "c means hypotenuse", or z is a leg so I used the equation  $7^2 + z^2 = 25^2$ )