

# Pythagorean Theorem

Your work with the Pythagorean Theorem was new to your geometry knowledge. To demonstrate knowledge and understanding of the Pythagorean Theorem include the following:

- **Example of a Pythagorean Theorem problem solving for the hypotenuse.**
- **Example of a Pythagorean Theorem problem solving for one of the legs.**
- **Example of a Pythagorean Theorem problem from the real world**
  1. Each example should use key vocabulary from the unit
  2. Each example should include supplemental pictures or diagrams to aid in explanation
- **Parent Problem**
  1. Make up a problem drawn from something you were asked to learn in this unit and ask someone at home to solve it. Include a copy of the problem with your solution, to be used as a key.
  2. You may make the problem challenging but not extremely difficult. The parent problem should have some depth, and may be somewhat like a three step homework problem. Ask for work to be shown and reasoning to be explained in writing.
  3. If the person is struggling, offer hints or clues to help.
  4. Write a paragraph describing the whole process. Include your parent's work in the portfolio.
- **Reflection**
  1. In a paragraph, describe something you learned from the Pythagorean Theorem. This could be something new you came to understand since seventh grade, something still puzzling you, a connection you made between math concepts or from math to the real world, or something else.
  2. Tell why you've included this information and your feelings about it.