

MATHEMATICS

SEPT 2013



Time: 15-20 min



CCSS.Math.Content.8.G.B.7:

Apply The Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions



EXTENSION:

For more info, see:
http://www.math-aids.com/cgi/pdf_viewer_8.cgi?script_name=pythagorean_definition.pl&x=110&y=21

Real-world Application of The Pythagorean Theorem

Practical application of classroom knowledge.

Scenario: We need to know the length of the diagonal of both the greenhouse as well as the grow bed.

Because plants are planted in the grow bed and aquaponics units are set up in the greenhouse, it is impractical to measure the diagonal directly.

How can we find the diagonal lengths of both the grow bed and greenhouse from only measuring the outside edges?