GRADE 8 MATH · HOMEWORK · SPECIAL ED

Apply the Pythagorean Theorem to Solve Problems

SCORE / 25

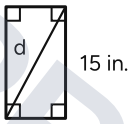
01 Part A · Practice

Find the right triangle in the situation, decide whether the unknown is a leg or the hypotenuse, and use $a^2 + b^2 = c^2$.

1 ●○○

Find the length of the diagonal d of the rectangle.

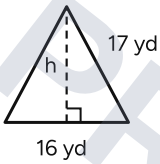
HINT The diagonal is the hypotenuse; the length and width are the legs.



2 ●○○

Find the height h of the isosceles triangle.

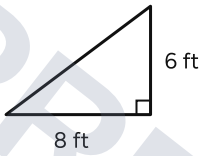
HINT The height splits the triangle into two right triangles. Use half the base.



3 ●○○

Find the perimeter of the right triangle.

HINT Find the missing side first, then add all three sides.



4 ●○○

A rectangle is 6 m long with a 10-m diagonal. Find its width and its area.

HINT Find the width with the Pythagorean Theorem first.

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Preview - the full worksheet and its answer key are at primeworksheet.com