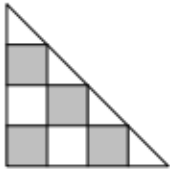


# Weekly Challenge 9

The diagram shows an isosceles right-angled triangle which has a hypotenuse of length  $y$ . The interior of the triangle is split up into identical squares and congruent isosceles right-angled triangles.



What is the total shaded area inside the triangle?

Don't forget to watch the explanation [here](#) on YouTube!