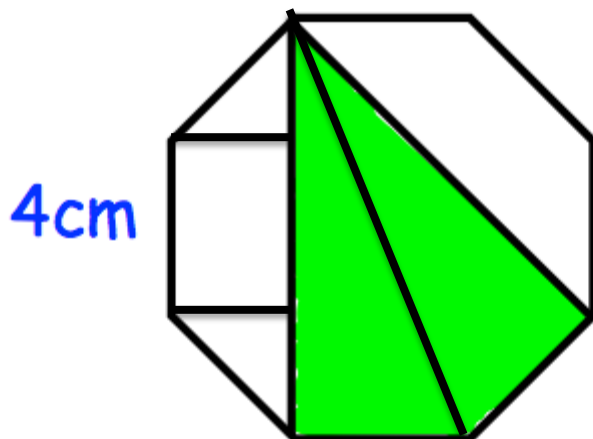


October 4th



Split the quadrilateral into 2 equal right angled triangles:

The height of each is made up of 4cm, plus 2 x the short leg of an isosceles right angled triangle, hypotenuse 4.

$$2x^2 = 16 \quad x = 2\sqrt{2}$$

Therefore total area =  $2 \times \frac{1}{2} \text{ base} \times \text{height} = 4 \times (4 + 4\sqrt{2})$

$$= \mathbf{16 + 16\sqrt{2} \text{ cm}^2}$$