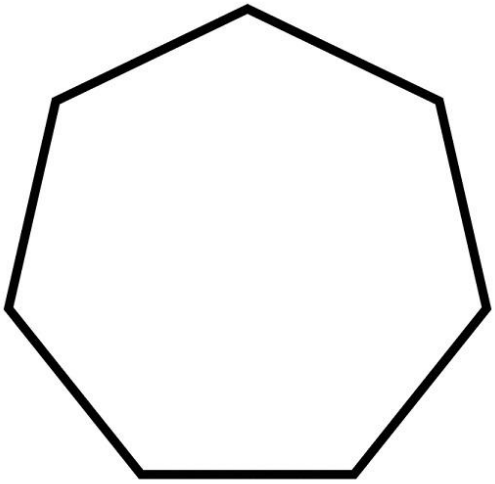
GEOMETRY TEST - 1º ESO

NAME: _____

1) Enunciate Pythagoras' theorem

2) Find the area of an isosceles trapezium whose bases are 20 cm and 15 cm and the equal sides are 12 cm

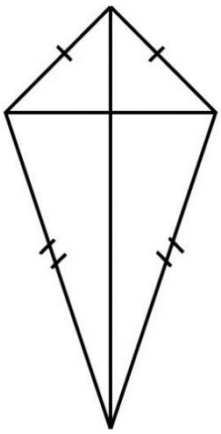
3) Work out the area of an heptagon if its radius is 10 cm and its apothem is 8 cm



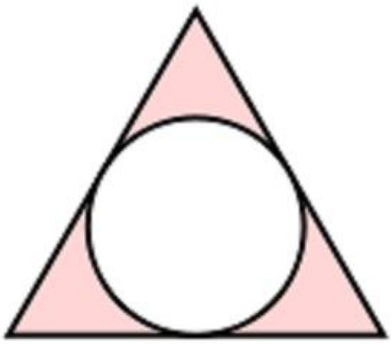
4) I had eight guests for my birthday and I ordered a circular cake. Each of the guests had a triangular portion with a surface of 19.24 cm^2. Supposing that the cake is almost flat, could you give me the approximate value of its radius?

5) Mr. Smith has bought a triangular piece of land and he has been told that one of the sides is 30 km long and the other two sides are 15 km long. Find the area of the land.

6) Find the area and the perimeter of this kite knowing that the sides are 10 cm and 20 cm and the smaller diagonal is 16 cm

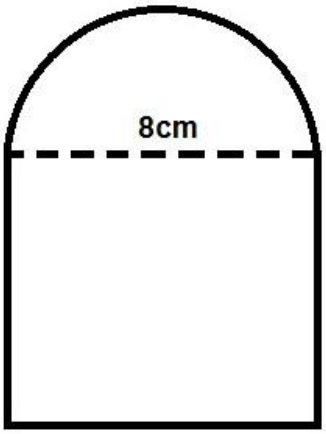


7) Work out the value of the shadowed region knowing that we have an equilateral triangle whose side is 15 cm and the radius of the circle is 5 cm



8) Work out the area of an isosceles triangle whose base is 12 cm if both equal sides are 15 cm long

9) This window is formed by a semi-circle joined to a square. Find its surface.



Note: Exercises 1, 5, 8, and 9 will be graded with one point. The rest will have a mark of 1.2 points