



Problem of the Week

Problem D

Another Suncatcher

A glass suncatcher is in the shape of an equilateral triangle with sides of length 144 mm. The triangle is labeled ABC and divided into 8 smaller sections as follows.

- Sides AB and BC are each divided into 8 segments of equal length.
- Each point of division on AB is connected to its corresponding point of division on BC , creating 7 line segments.
- Each of the 7 line segments is parallel to the third side of the triangle, AC .

Two of the sections are coloured blue to form a trapezoid, as shown. Determine the area of this trapezoid.

