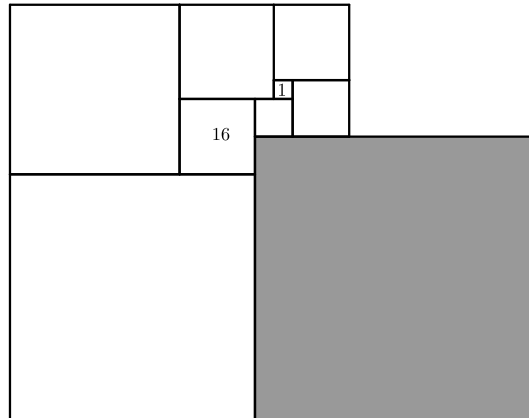


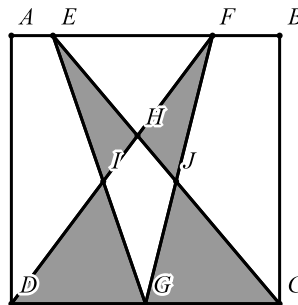
2025 July AMC 10 Week 2 Day 2 - Polygons-New

- 1 (1分) The figure below is composed of 9 squares. Given that the area of the smallest square is 1 square centimeter, what is the area of the shaded square?



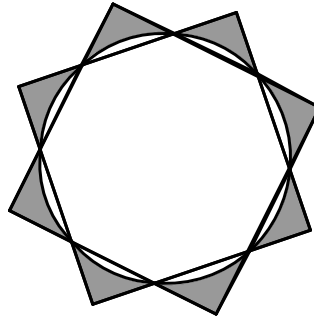
- A. 196cm^2 B. 225cm^2 C. 256cm^2 D. 289cm^2 E. 324cm^2

- 2 (1分) As shown in the figure, quadrilateral $ABCD$ is a square with side length 8, and the area of quadrilateral $GIHJ$ is 5. What is the area of the shaded part in the figure?



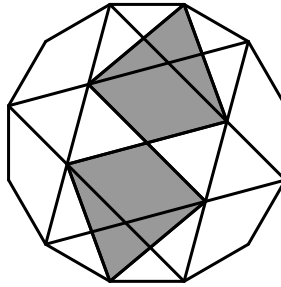
- A. 22 B. 24 C. 26 D. 28 E. 30

- 3 (1分) The pattern in the figure below consists of 1 circle and 2 squares of the same size (the common part of the two squares is a regular octagon). If the radius of the circle is 60cm , then what is the area of the shaded part? (Take $\pi = 3.14$)



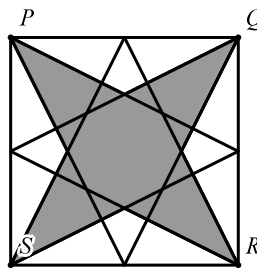
- A. 2096cm^2 B. 3096cm^2 C. 4096cm^2 D. 5096cm^2 E. 6096cm^2

- 4 (1分) As shown in the figure, the area of a regular dodecagon is 2022cm^2 . What is the area of the shaded part in the figure?



- A. 504cm^2 B. 568cm^2 C. 612cm^2 D. 674cm^2 E. 760cm^2

- 5 (1分) Within the square $PQRS$, lines are drawn from each corner to the middle of the opposite sides as shown. What fraction of $PQRS$ is shaded?



- A. $\frac{1}{4}$ B. $\frac{1}{3}$ C. $\frac{3}{8}$ D. $\frac{1}{2}$ E. $\frac{2}{3}$