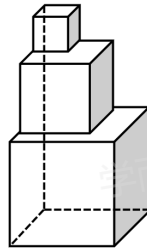


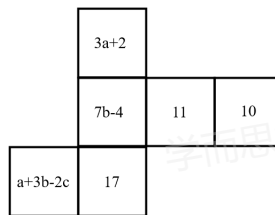
2025 July AMC8 Week 2 Day 1 - Solid Figures

- 1 (1分) As shown in the figure below, three cubes with edge lengths of 1cm , 2cm , and 3cm are attached closely together. What is the surface area of the resulting three-dimensional figure in square centimeters?



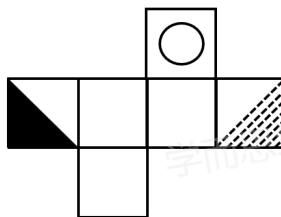
- A. 74 B. 77 C. 80 D. 83 E. 84

- 2 (1分) The following is a plane development diagram of a cube. If the values on the two opposite faces of the cube are equal, what is the value of $a - b \times c$?



- A. 3 B. 4 C. 5 D. 8 E. 10

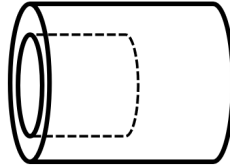
- 3 (1分) Mike folded a piece of paper into a cube-shaped box, put a gift inside, and mixed it with the boxes below. Which box contains the gift?



- A.  B.  C.  D.  E. 

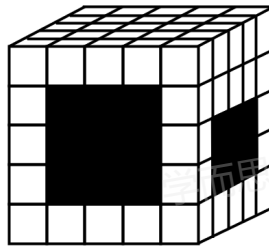
- 4 (1分)

There is a cylindrical part with a height of 10 centimeters and a base diameter of 6 centimeters. One end of the part has a straight cylindrical hole, as shown in the figure: the diameter of the circular hole is 4 centimeters, and the depth of the hole is 5 centimeters. If the parts of this component that are exposed to air are to be painted with anti-rust paint, what is the total area to be painted in square centimeters? (For convenience, use $\pi = 3.14$.)



- A. 282.6 B. 292.02 C. 307.72 D. 326.56 E. 320.28

5 (1分) There is a cube wooden block with an edge length of 5cm. There are penetrating holes (shown as black parts in the figure) when viewed from the front and the right side. What is the volume of this three-dimensional figure in cubic centimeters?



- A. 54 B. 56 C. 62 D. 68 E. 74