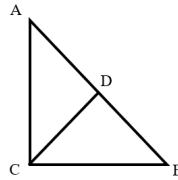


2025 July AMC8 Week 1 Day 3 - Triangle Properties

- 1 (1分) As shown in the figure, in triangle ABC , $m\angle ACB = 90^\circ$, $BC = 1$, point D is the midpoint of side AB , and CD bisects the perimeter of triangle ABC . What is the length of BD ?

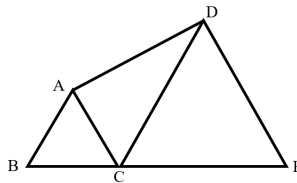


- A. $\frac{\sqrt{2}}{4}$ B. $\frac{\sqrt{2}}{2}$
 C. 1 D. $\sqrt{2}$
 E. 2

- 2 (1分) In a triangle, the largest angle is 5 times the smallest angle, and the other angle is 3 times the smallest angle. What is the degree measure of the largest angle?

- A. 90 B. 92.5 C. 100 D. 102.5 E. 112.5

- 3 (1分) Two equilateral triangles ABC and DCE lie on the same horizontal plane, with areas 4 and 9 respectively. What is the area of triangle ACD ?



- A. 5 B. 6 C. 6.5 D. 7 E. 8

- 4 (1分) The perimeter of a triangle is 60cm , and its shortest side is 13cm . If all three sides of the triangle are integers, what is the maximum possible length of the longest side in centimeters?

- A. 24 B. 25 C. 28 D. 29 E. 30

5

(1分) What is the largest whole number smaller than the perimeter of any triangle with a side of length 4 and a side of length 91?

A. 182

B. 184

C. 186

D. 188

E. 190