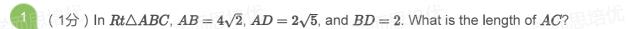
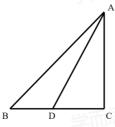
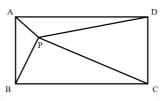


## 2025 July AMC 10 Week 1 Day 1 - Pythagorean Theorem-new





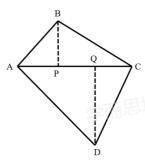
- A.  $\sqrt{6}$
- B. 3
- C.  $2\sqrt{3}$
- D. 4
- E.  $2\sqrt{6}$
- (1分) Point P lies inside rectangle ABCD. Given PA=5, PB=10, and PC=14, what is the length of PD?



- A. 10
- B. 11
- C. 12
- D. 13
- E. 14 思培优
- ③ (1分)In quadrilateral ABCD, AB=9, BC=12, CD=13, DA=14, and diagonal AC=15.

  Perpendiculars are drawn from B and D to AC, intersecting AC at points P and Q respectively.

  What is the length of PQ?

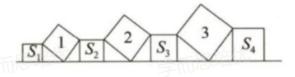


- A. 3
- B. 4
- C. 5
- D. 6
- E. 7

4 (1分)



Seven squares are placed in a line in sequence. It is known that the areas of the 3 obliquely placed squares are 1, 2, and 3 respectively, and the areas of the 4 horizontally placed squares are  $A_1$ ,  $A_2$ ,  $A_3$ , and  $A_4$  respectively. What is the value of  $A_1 + A_2 + A_3 + A_4$ ?



A. 3

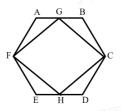
B. 4

C. 5

D. 6

E. 7





A. 8

B.  $4\sqrt{5}$ 

C.  $4\sqrt{6}$ 

D.  $4\sqrt{7}$ 

E.  $8\sqrt{2}$