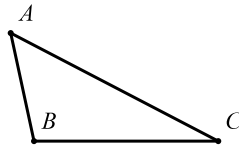


2025 July AMC 10 Week 2 Day 1 - Properties Triangles

1

(1分) As shown, $AB = 3$, $BC = 5$, $AC = 7$. What is the measure of $\angle ABC$?



A. 96°

B. 100°

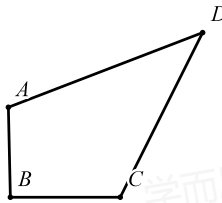
C. 110°

D. 120°

E. 130°

2

(1分) In quadrilateral $ABCD$, $m\angle B = 90^\circ$, $AB = 3$, $BC = 4$, $CD = 7$, $AD = 8$. What is the area of $ABCD$?



A. 16

B. $6 + 10\sqrt{3}$

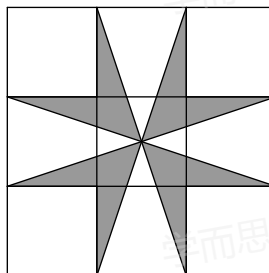
C. $12 + 10\sqrt{3}$

D. $6 + 20\sqrt{3}$

E. $20\sqrt{3}$

3

(1分) In a 3×3 square grid (small square side = 1), what is the area of the shaded region?



A. 1

B. 1.5

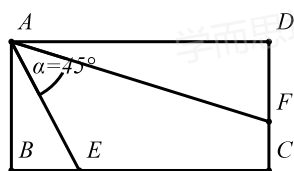
C. 2

D. 2.5

E. 3

4

(1分) In rectangle $ABCD$, $AB = 4$, $AD = 8$, $BE = 2$, and $\angle EAF = 45^\circ$. What is the length of DF ?



A. $\frac{7}{3}$

B. $\frac{8}{3}$

C. 3

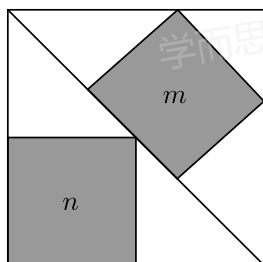
D. $\frac{7}{2}$

E. $\frac{10}{3}$

5

(1分) A large square contains two smaller squares with areas m and n . What is the value of

$\frac{m}{n}$?



A. $\frac{2}{3}$

B. $\frac{8}{9}$

C. 1

D. $\frac{9}{8}$

E. $\frac{4}{3}$