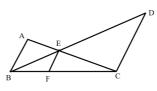
2025 July AMC 10 Week 1 Day 2 - "A" and "8" Models

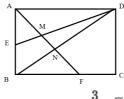
- (1分) The altitude of a right-angled triangle divides the hypotenuse into lengths of **4** and **6**. What is the area of triangle?
 - A. 25
- B. $10\sqrt{6}$
- C. 30
- D. $16\sqrt{6}$
- E. $20\sqrt{6}$
- (1分) As shown, in triangle ABC, D and E are the midpoints of AC and AE, respectively. If $BD \perp CE$, BD = 4, and CE = 6, what is the area of triangle ABC?



- A. 12
- B. **14**
- C. 16
- D. 18
- E. 20
- (1分) As shown, $AB\parallel EF\parallel CD$. Given AC+BD=240, BC=100, and EC+ED=192, what is the length of CF?



- A. 75
- B. 80
- C. 82 D. 90
- E. 95
- (1分) In rectangle ABCD, the side lengths are AD=3 and AB=2. E is the midpoint of AB, and F lies on BC such that BF=2FC. AF intersects DE and DB at points M and N, respectively. What is the length of MN?



A. $\frac{1}{2}$

B. $\frac{3}{10}\sqrt{2}$

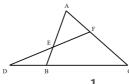
C.
$$\frac{2}{5}\sqrt{2}$$

E. $\frac{1}{2}\sqrt{2}$

E.
$$\frac{1}{2}\sqrt{2}$$

D. $\frac{9}{20}\sqrt{2}$

 ${f 0}$ (1分)In triangle ABC, point D lies on the extension of BC, and point F lies on AC. Line DFintersects AB at point E. Given AE:BE=3:2 and DE:EF=5:4, what is the ratio of AF : FC?



D. $\frac{7}{18}$