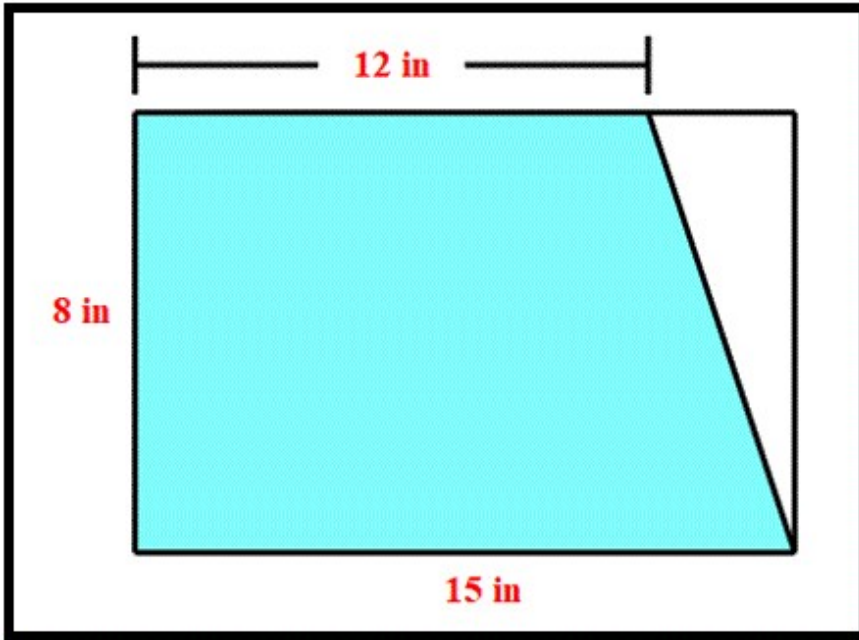


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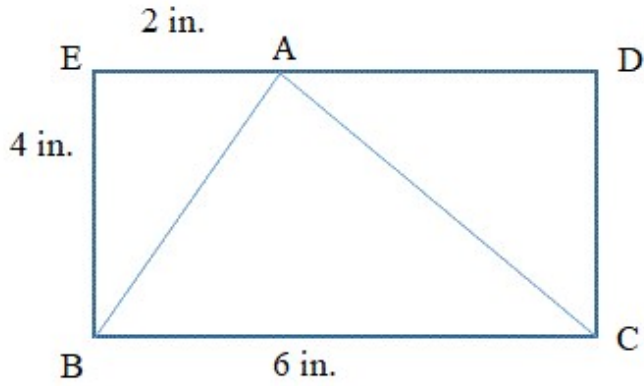
HW #2 Due 9/17

1. What is the area, in square inches, of the shaded part of the rectangle shown below?



- A. 46 square inches
- B. 108 square inches
- C. 120 square inches
- D. 132 square inches

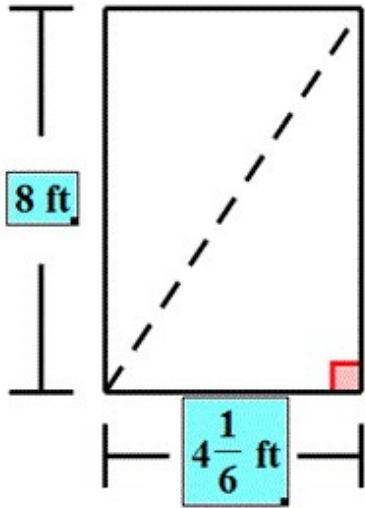
2. Triangle ABC is drawn inside a rectangle $BCDE$, as shown in the diagram below.



What is the area of triangle ABC ?

- A. 24 square inches
- B. 20 square inches
- C. 18 square inches
- D. 12 square inches

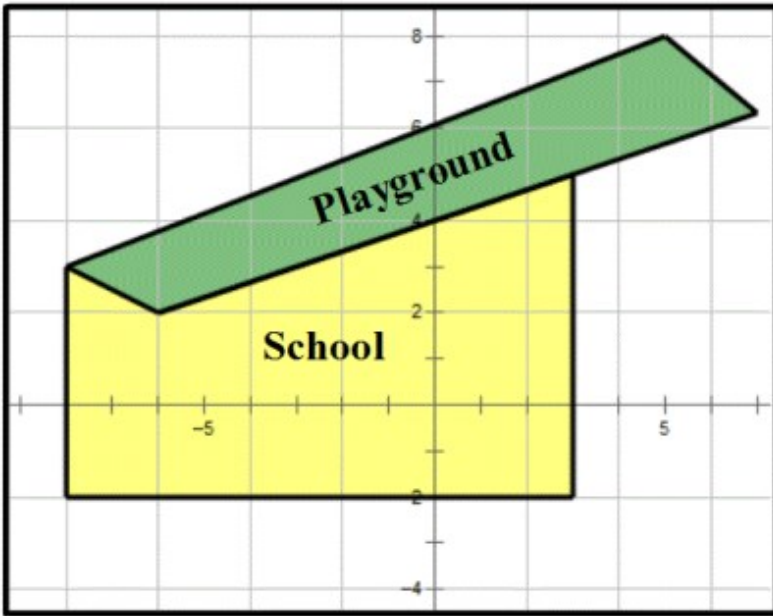
3. A rectangular beach blanket is divided into two congruent triangles and is shown below.



What is the area of one of the triangles?

- A. $33\frac{1}{3}$ square feet
- B. $27\frac{1}{3}$ square feet
- C. $16\frac{2}{3}$ square feet
- D. $10\frac{2}{3}$ square feet

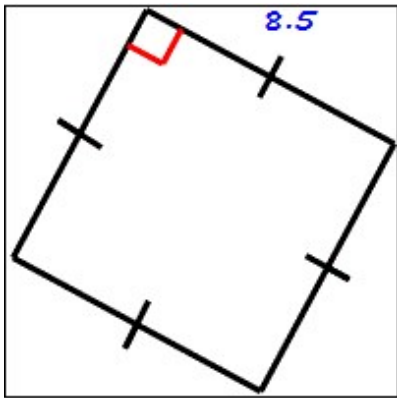
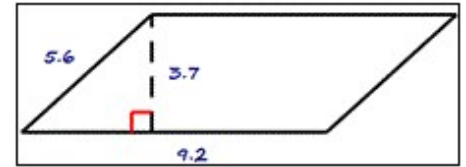
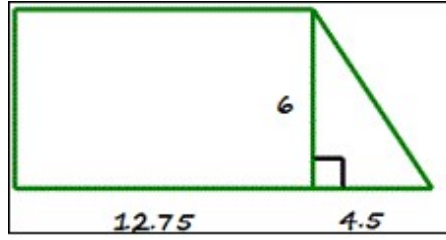
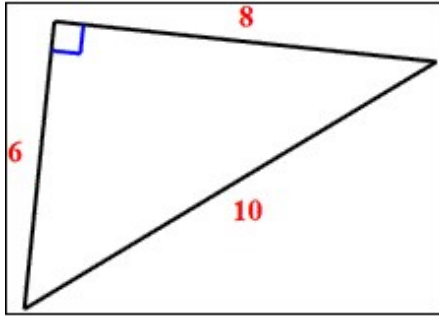
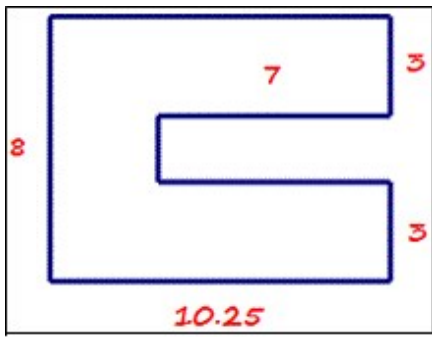
4. Use the diagram below to answer the following question.



What is the area of the school?

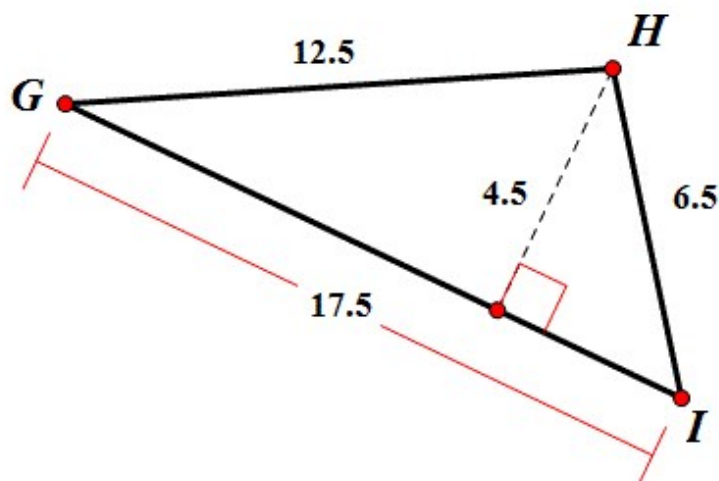
- A. 16.5 units^2
- B. 58.5 units^2
- C. 77 units^2
- D. 86.5 units^2

5. Drag and drop the shapes below to put them in order from smallest area to largest area.



Smallest	
Largest	

6. Which student calculated the area of $\triangle GHI$ correctly?



A. Eric:

$$A = \frac{1}{2}(12.5)(4.5)$$
$$A = 28.125 \text{ units}^2$$

B. Silas:

$$A = \frac{1}{2}(12.5)(17.5)$$
$$A = 109.375 \text{ units}^2$$

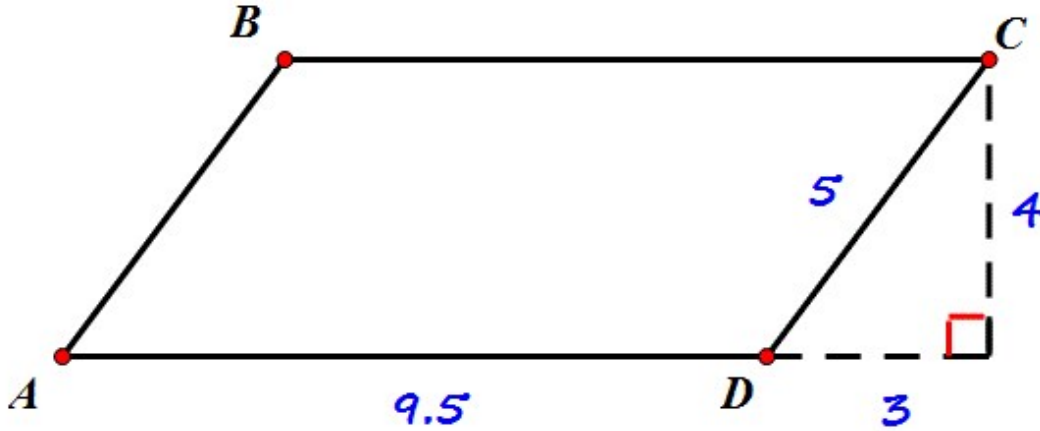
C. Ace:

$$A = \frac{1}{2}(12.5)(6.5)$$
$$A = 40.625 \text{ units}^2$$

D. Chase:

$$A = \frac{1}{2}(17.5)(4.5)$$
$$A = 39.375 \text{ units}^2$$

7. Which student calculated the area of parallelogram $ABCD$ correctly?



A. Gianna:

$$A = (9.5)(5)$$

$$A = 47.5 \text{ units}^2$$

B. Bianca:

$$A = (9.5)(4)$$

$$A = 38 \text{ units}^2$$

C. Amelia:

$$A = (12.5)(5)$$

$$A = 62.5 \text{ units}^2$$

D. Peyton:

$$A = (12.5)(4)$$

$$A = 50 \text{ units}^2$$

8. A rectangle has an area of 3,200 square inches. If the length of the rectangle is 80 inches, what is the measure of the width of the rectangle?

Answer:

inches

9. Which of the following numbers divide evenly into 225?

A. 10

B. 2

C. 3

D. 22