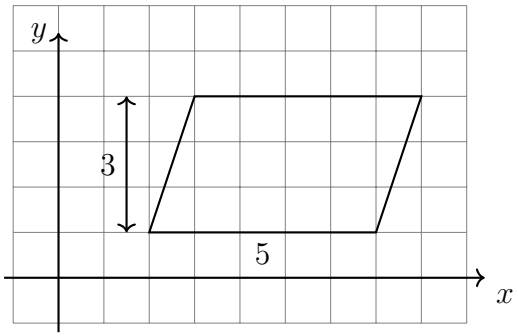
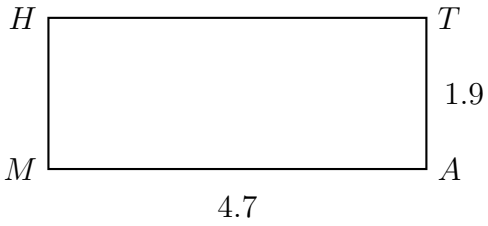
1.8 Classwork: Area of rectangles, triangles, parallelograms

1. Find the area of the parallelogram shown with a base $b = 5$ and height $h = 3$.



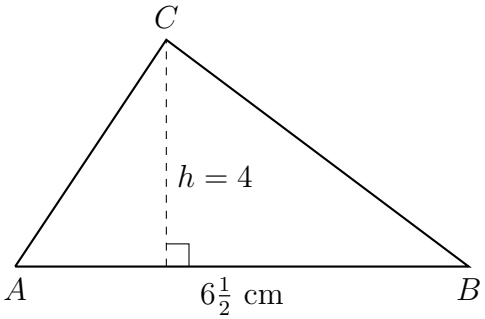
2. Given rectangle $MATH$ shown below with dimensions $MA = 4.7$ and $AT = 1.9$.



(a) Find the area of the rectangle.

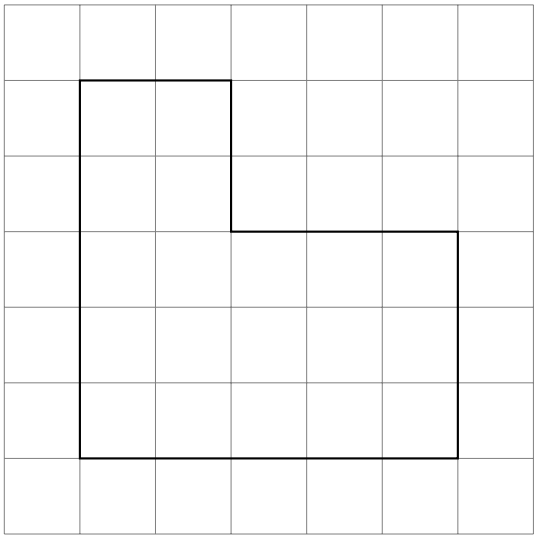
(b) Find its perimeter.

3. Find the area of $\triangle ABC$. The altitude h of the triangle is 4 centimeters and the base $AB = 6\frac{1}{2}$ cm.

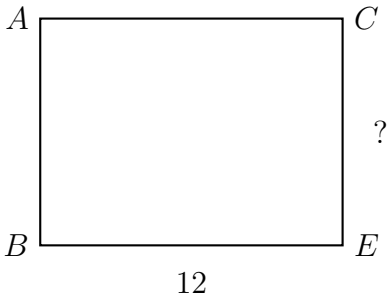


4. The area of a square is 100 square feet. Find the length of the side of the square.

5. A compound shape is drawn below, combining a rectangle and a square. The grid is in centimeters. Find its perimeter and its area. (label the sides with their lengths first)



6. The rectangle $BECA$ has an area of 102, with length $BE = 12$. Find the width of the rectangle EC.



7. The compound shape shown below is composed of a rectangle 3 inches by 7 inches, and a triangle with base 2 inches. Find the total area of the combined shape.