Unit 4: Volume   Name:
31 October 2022

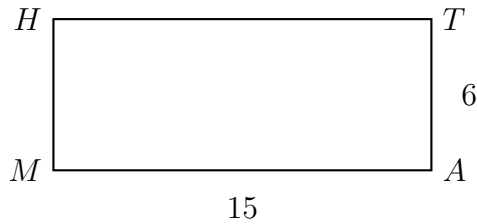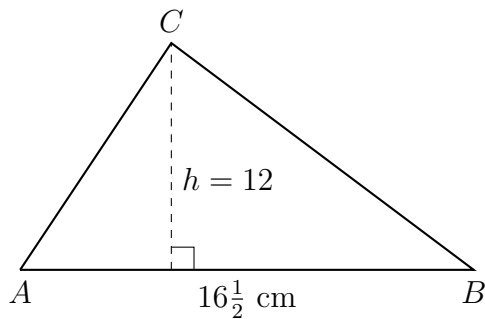**4.1 Homework: Area of rectangles, triangles, parallelograms – review**

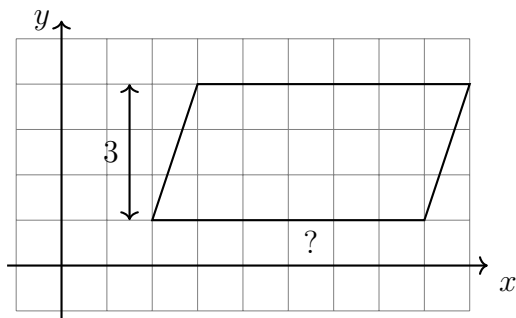1. Given rectangle $MATH$ shown below with dimensions $MA = 15$ and $AT = 6$.

   H ┌─────────────────┐ T   (a) Find the area of the rectangle.
     │   │ 6
   M └─────────────────┘ A   (b) Find its perimeter.
            15

2. Find the area of $\triangle ABC$. The altitude h of the triangle is 12 centimeters and the base $AB = 16\frac{1}{2}$ cm.
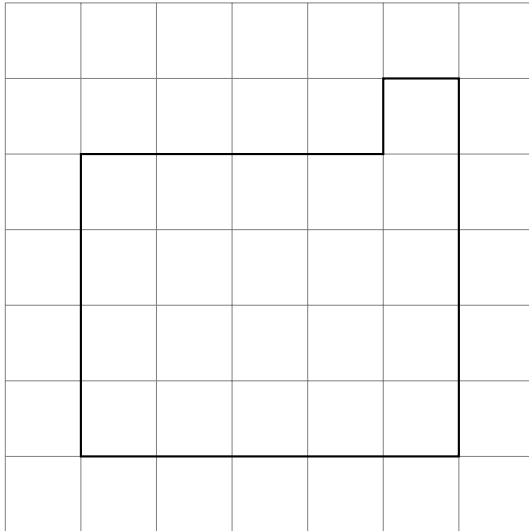
   $h = 12$

   $A \quad\quad 16\frac{1}{2}$ cm $\quad\quad B$

3. A given parallelogram has a height $h = 3$ and area 18. Find the length of its base.
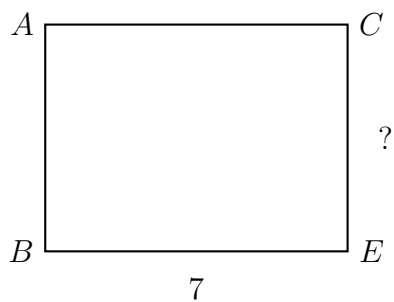
   3

   ?

4. The area of a square is 36 square meters. 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 35, with length $BE = 7$. Find the width of the rectangle EC.

A C

$?$

B E

7

7. The compound shape shown below is composed of a rectangle 4 inches tall by 6 inches long, and a triangle with base 3 inches. Find the total area of the combined shape.

4

6   3