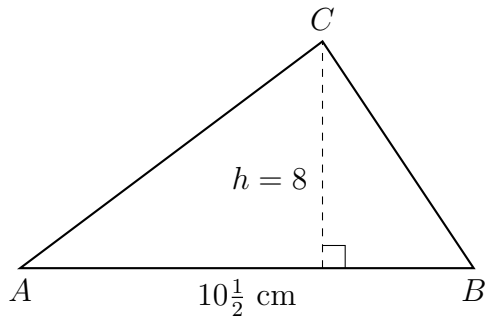


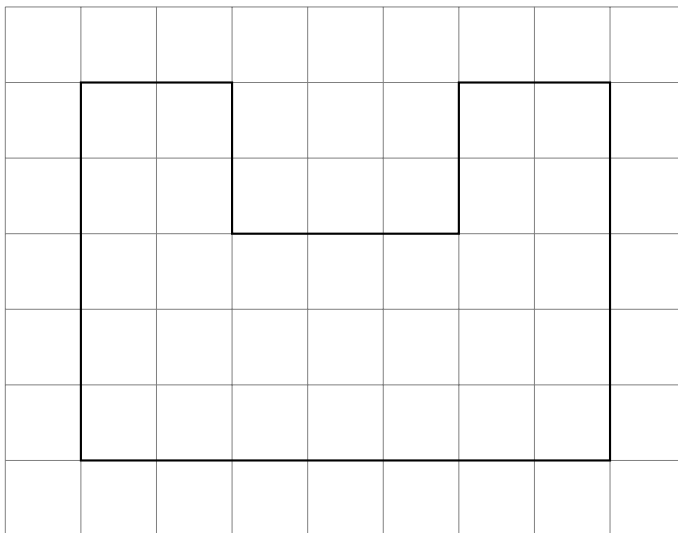
Name:

### 1.8 Homework: Area of rectangles, triangles, parallelograms

- Find the area of  $\triangle ABC$ . The altitude  $h$  of the triangle is 8 centimeters and the base  $AB = 10\frac{1}{2}$  cm. (diagram not to scale)

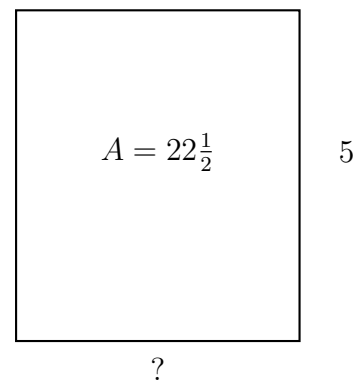


- Find the area  $A$  and perimeter  $P$  of the shape shown below. The grid is in centimeters.



- Find the length of the base of a rectangle with area  $A = 22\frac{1}{2}$  and height  $h = 5$ , expressed as a fraction. Start with the form (use  $b$  or  $x$ ):

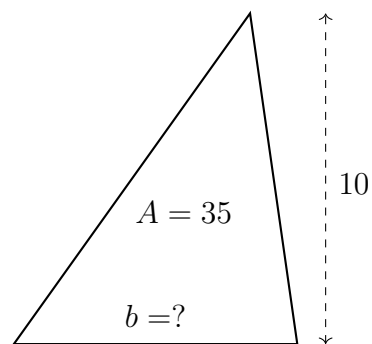
$$A = b \times h = 22\frac{1}{2}$$



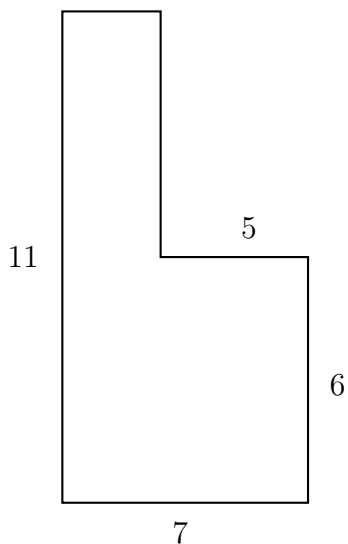
4. The perimeter of a square is 40 centimeters. Find the length of the side of the square.

5. Find the length of the base of a triangle with area  $A = 35$  and height  $h = 10$ . Start with the form (use  $b$  or  $x$ ):

$$A = \frac{1}{2} \times b \times h = 35$$



6. Find the area and perimeter of the combined rectangular shape shown below. Mark the missing side lengths first. *(not drawn to scale)*



7. Rectangle  $JKLM$  has area  $A = 21$  and base  $JK = 7$  but unknown height. Write an equation then solve. Start with this form (for the unknown, use  $h$ ,  $x$ , or  $KL$ ):

$$A = b \times h = 21$$