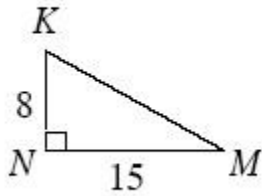
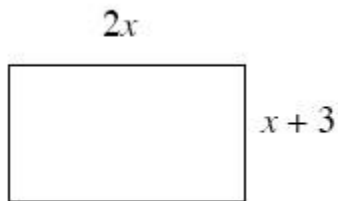


**2-101.** Draw the triangle below on graph paper. Then draw a square on  $\overline{KM}$  and use it to find the length of  $\overline{KM}$ .



**2-102. Examine** the rectangle below.



- What is the perimeter in terms of  $x$ ? In other words, find the perimeter.
- If the perimeter is 78 cm, find the dimensions of the rectangle. Show all your work.
- Verify that the area of this rectangle is 360 sq. cm. Explain how you know this.

**2-103. Examine** the arrow diagram below.

*Polygon is a parallelogram  $\rightarrow$  area of the polygon equals base times height.*

- Write this conjecture as a conditional (“If, then”) statement.
- Write a similar conjecture about triangles, both as a conditional statement and as an arrow diagram.

**2-110.** Write the equation of each line described below in slope-intercept form ( $y = mx + b$ ).

a.  $m = \frac{6}{5}$  and  $b = -3$

b.  $m = -\frac{1}{4}$  and  $b = 4.5$

c.  $m = \frac{1}{3}$  and the line passes through the origin  $(0, 0)$

d.  $m = 0$  and  $b = 2$