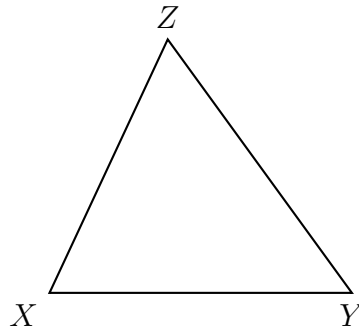


Name: _____

1.5 Homework: Polygons, perimeter

1. Line segments that have the same length are _____.
2. Given isosceles $\triangle XYZ$ with $\overline{XY} \cong \overline{YZ}$. On the diagram mark the congruent line segments with tick marks.

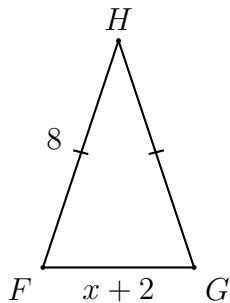


3. Given the rectangle $ABCD$ shown below.
 - (a) Measure and mark the length and width of the rectangle in centimeters.
 - (b) Calculate its perimeter P . (show your work as an equation)

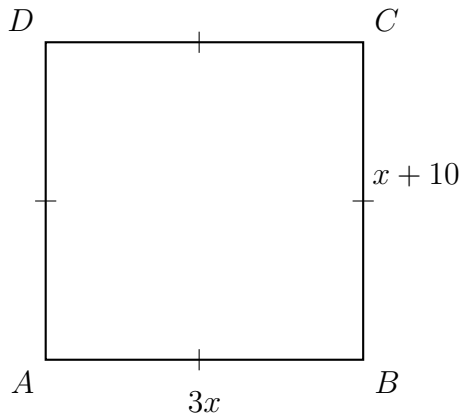


4. The perimeter of the isosceles $\triangle FGH$ is 21 with $\overline{FH} \cong \overline{GH}$, $FG = x + 2$, $FH = 8$. Fill in the blanks then solve for x .

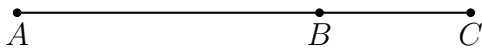
$$P = 8 + \underline{\hspace{1cm}} + (x + 2) = \underline{\hspace{2cm}}$$



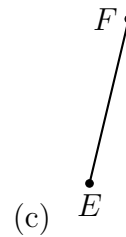
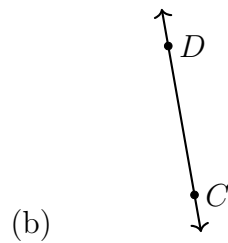
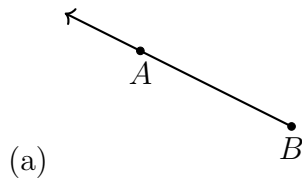
5. A square has four sides of equal length. Given $ABCD$ with $AB = 3x$ and $BC = x + 10$. Find the square's perimeter. (hint: first find x)



6. Given \overline{ABC} , $AB = 3.8$, and $BC = 1.7$. Find AC .



7. Use symbols to write the name of each geometric figure.



8. Given Q bisects \overline{PR} , with $PQ = 3x - 12$, $QR = 2x$. Find PR .

