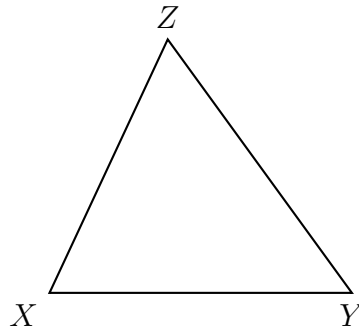


Name: _____

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.

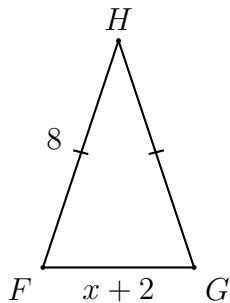


3. Given the rectangle $ABCD$ shown below.
 - (a) Measure and mark the length and width of the rectangle in centimeters.
 - (b) Calculate its perimeter P . (show your work as an equation)

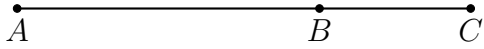


4. The perimeter of the isosceles $\triangle FGH$ is 21 with $\overline{FH} \cong \overline{GH}$, $FG = x + 2$, $FH = 8$. Fill in the blanks then solve for x .

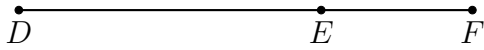
$$P = 8 + \underline{\hspace{1cm}} + (x + 2) = \underline{\hspace{2cm}}$$



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



6. Given \overline{DEF} , $DE = 3\frac{1}{3}$, and $EF = 1$. Find DF .



7. Given \overline{PQR} , $PQ = x - 2$, $QR = x$, $PR = 10$. Find PQ .

