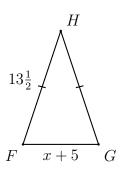
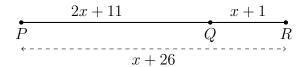
1.5 Homework: Segments, equilateral and isosceles triangles, perimeter

1. The perimeter of the isosceles $\triangle FGH$ is 35 with $\overline{FH} \cong \overline{GH}$. If FG = x + 5 and $FH = 13\frac{1}{2}$, find x.

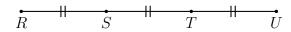
Show your work with an equation for full credit.



2. Given \overline{PQR} , PQ = 2x + 11, QR = x + 1, PR = x + 26. Find x.



- (a) Write down an equation to represent the situation.
- (b) Solve for x.
- (c) Check your answer.
- 3. Given the points S and T trisect the line segment \overline{RU} , as shown below. If RT=7, find RU.



- 4. The point Q lies on \overline{AB} three quarters of the way from A to B. Given AB=28.
 - (a) Mark and label the approximate location of Q.
 - (b) Find AQ. State an equation for full credit.



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

