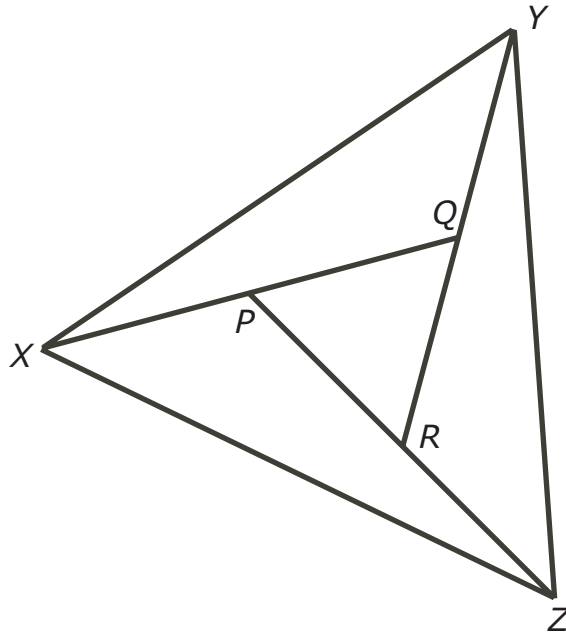# Problem of the Week
Grade 11 and 12

So Many Triangles

$\triangle PQR$ has side QP extended to X so that $QP = PX$, PR extended to Z so that $PR = RZ$, and RQ extended to Y so that $RQ = QY$.

If the area of $\triangle XYZ = 1176$ cm^2, determine the area of $\triangle PQR$.