

Week 3: PQ is 3cm!

The angle at vertex R must be 90° as shown below:

Let the length of the hypotenuse of each of the smaller triangles be a .

Then PR has length $4a$ and QR has length $3a$ and, therefore, triangle PQR forms a Pythagorean Triple and PQ must have length $5a$. If PR is actually 2.4cm then PQ must be $(2.4 / 4) \times 5 = \mathbf{3\text{cm}}$.

