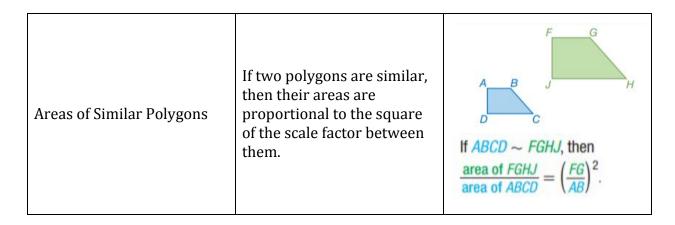
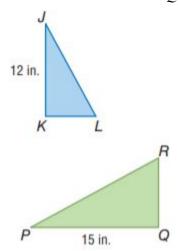
Recall:

If two polygons are similar then their perimeters are proportional to the scale factor between them.



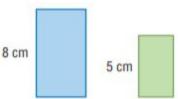


1. If $\triangle JKL \sim \triangle PQR$ and the area of $\triangle JKL = 30$ in². Find the area of $\triangle PQR$.

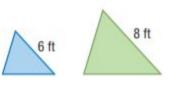


2. For each pair of similar figures, find the area of the figure on the right:

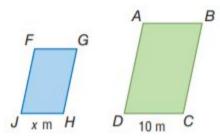
a.



b

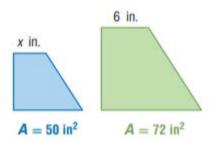


3. The area of parallelogram $ABCD=150\ m^2$. The area of parallelogram $FGHJ=54\ m^2$. If the two parallelograms are similar, find the scale factor of parallelogram FGHJ to parallelogram ABCD and find x.



4. For each pair of similar figures, use the given areas to find the scale factor of the left figure to the right figure. Then find x.

a.



b.

