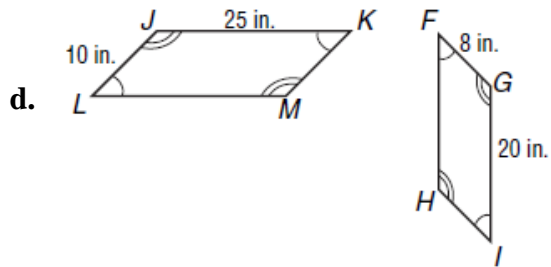
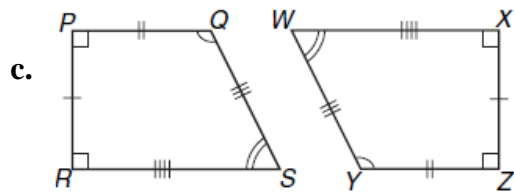
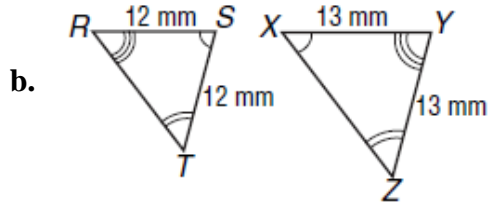
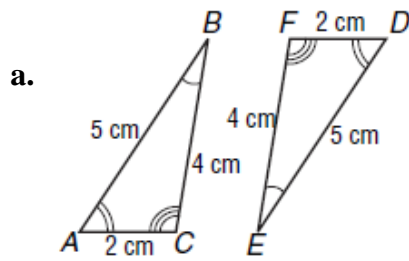


6-4 Skills Practice: Congruent Polygons

1. Determine whether the polygons shown are congruent. If so, name the corresponding parts and write a congruence statement.



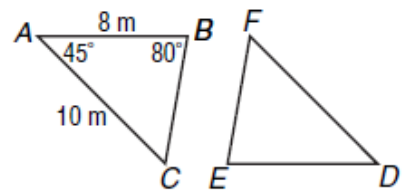
2. In the figure, $\triangle ABC \cong \triangle DEF$. Find each measure.

a. DF

b. DE

c. $m\angle D$

d. $m\angle E$



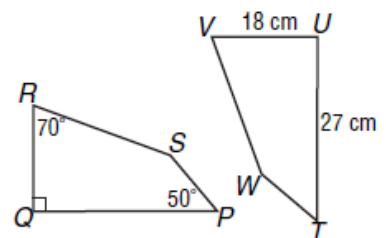
3. Determine the angle measures in each polygon.

a. PQ

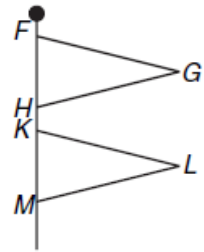
b. QR

c. $m\angle U$

d. $m\angle V$

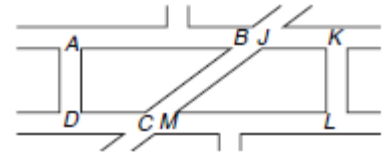


4. **FLAGS:** The two flags flying on the pole are in the shape of triangles. If $\triangle FGH \cong \triangle KLM$, $m\angle F = 80^\circ$, and $m\angle H = 80^\circ$, find $m\angle L$.



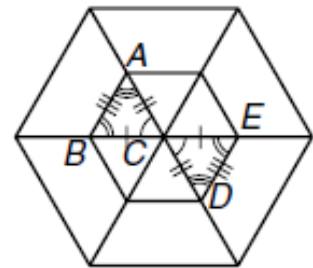
5. **FLOORING:** Tevin designed custom tiles for his shower as shown. The tiles are congruent quadrilaterals.

Write a congruence statement.



Then find $m\angle J$ if $m\angle A = 90^\circ$, $m\angle B = 60^\circ$, and $m\angle D = 90^\circ$.

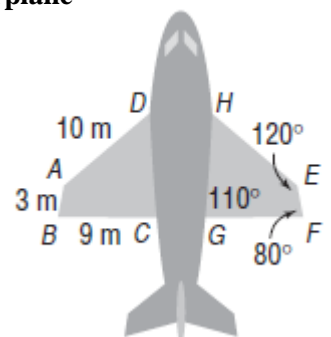
6. Part of a spider's web is shown in the figure. Determine whether the two marked triangles are congruent.



7. If so, name the corresponding parts and write a congruence statement.

8. The diagram at the right is of an airplane as seen from above. The wings of the airplane form congruent quadrilaterals, so quadrilateral $ABCD \cong$ quadrilateral $EFGH$.

Name an unlabeled wing part whose length is 3 meters. Explain your answer.



Explain how a quality control person could find out if $m\angle DCB$ was correct.