## Congruence

Trace each figure. Use a ruler to measure the sides and a protractor to measure the angles of each figure. Mark the congruent sides and angles.

1.  
   ![](triangle.png)

2.  
   ![](parallelogram.png)

3.  
   ![](trapezoid.png)

Use the diagram to answer the questions. Explain your reasoning.

4. What is the length of side $KL$? ________________

5. What is the measure of $\angle J$? ________________

6. What is the length of side $JK$? ________________

7. What is the measure of $\angle K$? ________________

8. What is the measure of $\angle B$? ________________

9. What is the length of side $JL$? ________________

10. What is the measure of $\angle C$? ________________

### Test Prep

11. The two triangles are congruent. The second triangle has the angles $X$, $Y$, and $Z$. Label it so that $\triangle DEF = \triangle XYZ$.

12. $\triangle ABC = \triangle DEF$. Find the measure of $\angle F$.

   A 30°
   B 50°
   C 40°
   D 100°

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