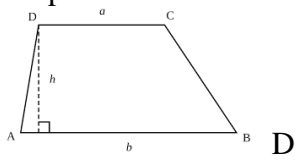
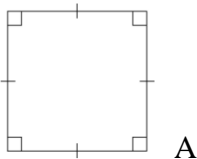
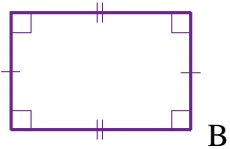
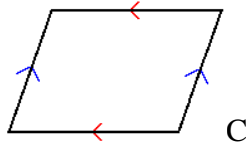
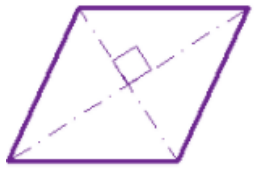


Secondary 2 Module 5 Quiz 2 Practice

**Instructions:** Match the definition with the figure.

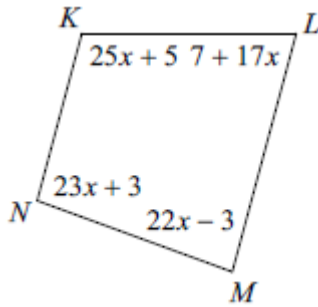
<p>1. Trapezoid</p> 	<p>a. A four-sided figure with two sets of parallel lines. Each pair of parallel lines are congruent and there are four right angles. The diagonals bisect each other.</p>
<p>2. Square</p> 	<p>b. A four-sided figure with two sets of congruent parallel sides and four right angles. The diagonals bisect each other.</p>
<p>3. Rectangle</p> 	<p>c. A four-sided figure with two sets of parallel lines. Opposite angles are congruent. Opposite sides are congruent. Consecutive angles are supplementary and the diagonals bisect each other.</p>
<p>4. Parallelogram</p> 	<p>d. A four-sided figure with only one set of parallel sides.</p>
<p>5. Rhombus</p> 	<p>e. A four-sided figure with two sets of parallel lines with opposite congruent acute angles, opposite congruent obtuse angles, and four congruent sides.</p>

**Instructions:** Please answer the following questions.

<p>6. <math>m \angle ABC = 15^\circ</math></p> <p>a. What is the complement?</p> $90 = 15 + x$ $x = 75^\circ$ <p>b. What is the supplement?</p> $180 = 15 + x$ $x = 165^\circ$	<p>7. <math>m \angle XYZ = 4x + 10</math></p> <p>a. What is the complement?</p> $90 = 4x + 10 + y$ $y = 80 - 4x$ <p>b. What is the supplement?</p> $180 = 4x + 10 + y$ $y = 170 - 4x$
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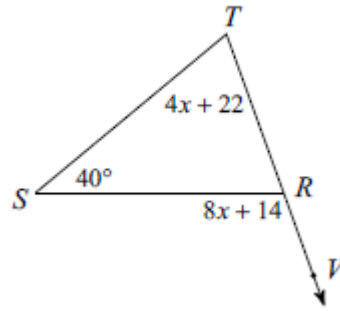
**Instructions:** Please answer the following questions.

8. Solve for  $m < M$ .



$$m < M = 85^\circ$$

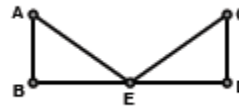
9. Solve for  $x$ .



$$x = 6$$

10. **Instructions:** Use the following information to organize the information on the left and the right. Remember the statements on the left and the reasons on the right.

Given:  $\overline{AE} \cong \overline{CE}$ ;  $\overline{AB} \cong \overline{CD}$   
 $E$  is the midpoint of  $\overline{BD}$   
 Prove:  $\triangle EAB \cong \triangle ECD$



$\overline{BE} \cong \overline{ED}$	SSS
$\overline{AE} \cong \overline{CE}$	Given
$\triangle EAB \cong \triangle ECD$	Given
$\overline{AB} \cong \overline{CD}$	Given
$E$ is the midpoint of $\overline{BD}$	Definition of Midpoint
11. $\overline{AE} \cong \overline{CE}$	a. Given
12. $\overline{AB} \cong \overline{CD}$	b. Given
13. $E$ is the midpoint of $\overline{BD}$	c. Given
14. $\overline{BE} \cong \overline{ED}$	d. Definition of Midpoint
15. $\triangle EAB \cong \triangle ECD$	e. SSS