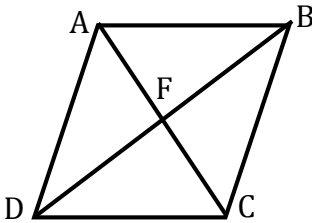
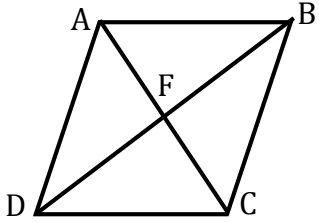
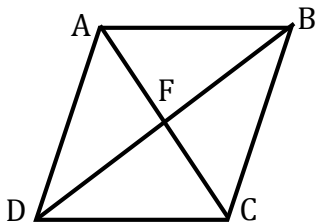
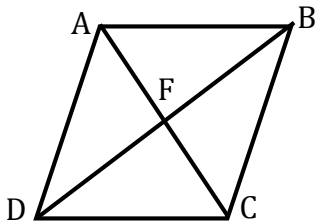
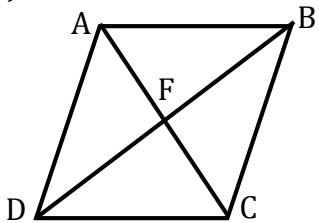
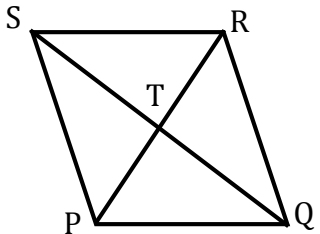
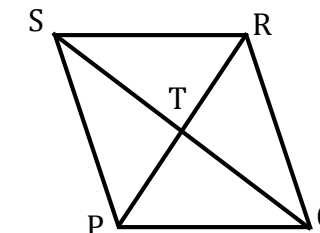
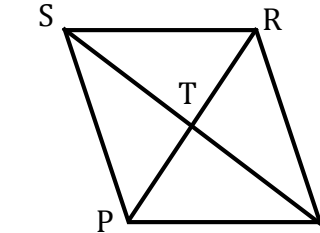
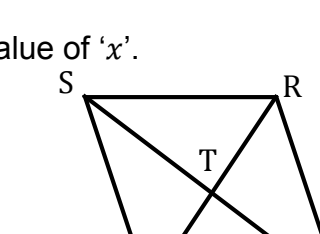


7.4 SQUARES & RHOMBI

Use rhombus ABCD and the given information to find each value.

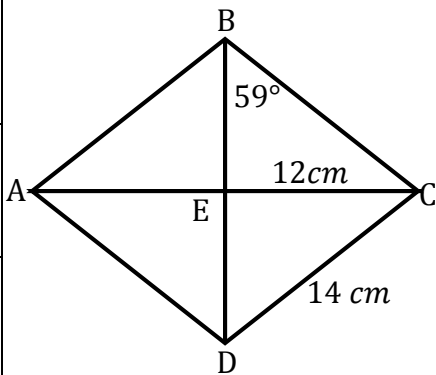
<p>1. $m\angle ACD =$ _____</p>	<p>If $m\angle BAF = 28^\circ$, find $m\angle ACD$.</p>	
<p>2. $x =$ _____</p>	<p>Find 'x' if $m\angle AFB = (16x + 6)^\circ$.</p>	
<p>3. $m\angle ABC =$ _____</p>	<p>If $m\angle ACD = 34^\circ$, find $m\angle ABC$.</p>	
<p>4. $x =$ _____</p>	<p>Find 'x' if $m\angle BFC = (120 - 4x)^\circ$.</p>	
<p>5. $x =$ _____</p>	<p>What is the value of 'x' if $m\angle BAC = (4x + 6)^\circ$ and $m\angle ACD = (12x - 18)^\circ$?</p>	

Use rhombus PQRS and the given information to find each value.

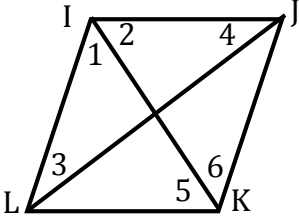
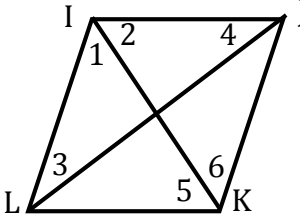
<p>6. $SQ =$ _____</p>	<p>If $ST = 13$, find SQ.</p>	
<p>7. $m\angle QRS =$ _____</p>	<p>If $m\angle PRS = 17^\circ$, find $m\angle QRS$.</p>	
<p>8. $m\angle STR =$ _____</p>	<p>Find $m\angle STR$.</p>	
<p>9. $x =$ _____</p>	<p>If $SP = 4x - 3$ and $PQ = 18 + x$, find the value of 'x'.</p>	

Use the rhombus ABCD and the given information to find each measure.

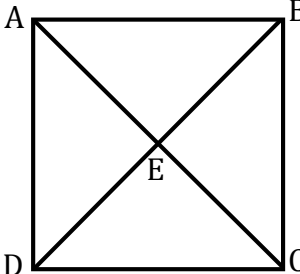
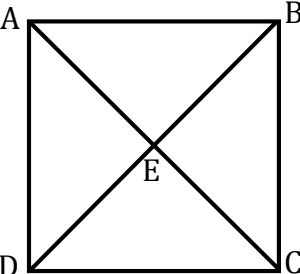
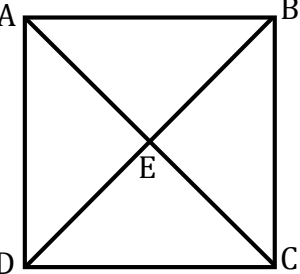
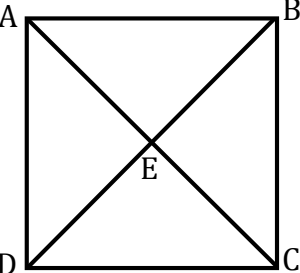
<p>10. $m\angle BCE =$ _____</p>	<p>Find $m\angle BCE$.</p>
<p>11. $m\angle BEC =$ _____</p>	<p>Find $m\angle BEC$.</p>
<p>12. $AC =$ _____</p>	<p>Find AC.</p>
<p>13. $m\angle ABD =$ _____</p>	<p>Find $m\angle ABD$.</p>
<p>14. $AD =$ _____</p>	<p>Find AD.</p>



Use rhombus IJKL and the given information to find each value.

<p>15. $m\angle 1 =$ _____</p>	<p>If $m\angle 3 = 62^\circ$, find $m\angle 1$.</p>	
<p>16. $x =$ _____</p>	<p>If $m\angle 4 = (3x - 1)^\circ$ and $m\angle 3 = (2x + 30)^\circ$, find the value of 'x'.</p>	

Use square ABCD and the given information to find each value.

<p>17. $x =$ _____</p>	<p>If $m\angle AEB = (3x)^\circ$, find 'x'.</p>	
<p>18. $x =$ _____</p>	<p>If $m\angle BAC = (9x)^\circ$, find 'x'.</p>	
<p>19. $BC =$ _____</p>	<p>If $AB = 2x + 4$ and $CD = 3x - 5$, find BC.</p>	
<p>20. $x =$ _____</p>	<p>If $m\angle BAC = (3x)^\circ$, find 'x'.</p>	

REVIEW PROBLEMS**Solve each of the following.**

21. $x =$ _____ $y =$ _____	In parallelogram ABCD, $AB = 4x + 9$, $m\angle BAC = (5y + 1)^\circ$, $m\angle D = 75^\circ$, $m\angle ACD = 56^\circ$, and $CD = 45$. Find the value of 'x' and 'y'.
22. Classification: Why?	The angles in a triangle have measures $(7x - 8)^\circ$, $(3x + 3)^\circ$, and $(18x - 11)^\circ$. Is this triangle acute, obtuse, or right? Explain.
23. $x =$ _____ $m\angle DBC =$ _____	\overrightarrow{BD} is a bisector of $\angle ABC$. $m\angle ABD = (2x + 7)^\circ$ and $m\angle ABC = 54^\circ$. Find the value of 'x', and the $m\angle DBC$.