NAME _____ DATE _____

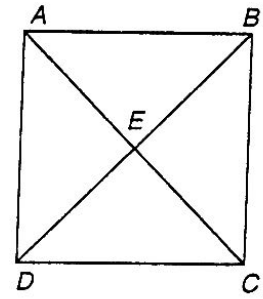
Practice

Squares

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

1. If $m\angle AEB = 3x$, find x.

2. If $m\angle BAC = 9x$, find x.

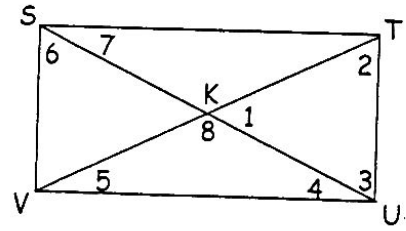


3. If $AB = 2x + 4$ and $CD = 3x - 5$, find BC.

4. If $m\angle DAC = y$ and $m\angle BAC = 3x$, find x.

5. If $AB = x^2 - 15$ and $BC = 2x$, find x.

Use rectangle STUV for questions 8-11.



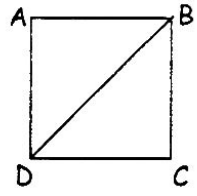
8. If $m\angle 1 = 30$, $m\angle 2 =$ _____

9. If $m\angle 6 = 57$, $m\angle 4 =$ _____

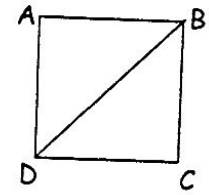
10. If $m\angle 8 = 133$, $m\angle 2 =$ _____

11. If $m\angle 5 = 16$, $m\angle 3 =$ _____

13. ABCD is a square. If $m\angle DBC = x^2 - 4x$, find x.



20. ABCD is a square. $AB = 5x + 2y$, $AD = 3x - y$, and $BC = 11$. Find x and y.



28. Given square PQRS, $SR = x^2 - 2x$, $QR = 4x - 5$. Find x, SR, and QR.