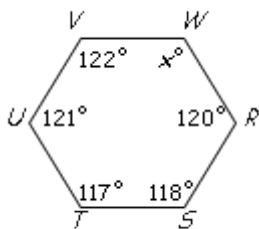


### Geometry Bundle 8 Test REVIEW

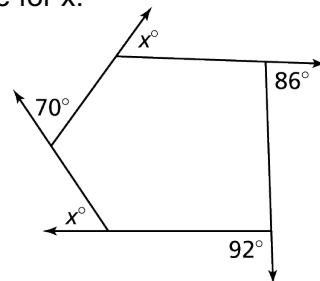
**Match the formulas.**

- |       |  |                             |
|-------|--|-----------------------------|
| _____ | 1. sum of the interior angles of a polygon                 | A. $n - 3$                  |
| _____ | 2. sum of the exterior angles of a polygon                 | B. $n - 2$                  |
| _____ | 3. measure of one interior angle of a regular polygon      | C. $(n - 2)(180)$           |
| _____ | 4. measure of one exterior angle of a regular polygon      | D. $\frac{(n - 2)(180)}{n}$ |
| _____ | 5. number of diagonals drawn from one vertex               | E. 360                      |
| _____ | 6. number of triangles formed by diagonals from one vertex | F. $\frac{360}{n}$          |

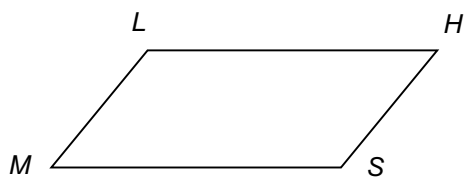
7. What is the sum of the measure of the interior angles of a 19-gon?
8. What is the measure of one interior angle of a regular 24-gon?
9. What is the sum of the measures of the exterior angles of any polygon?
10. What is the measure of one exterior angle of a regular 18-gon?
11. The sum of the measures of the interior angles of a convex polygon is  $3780^\circ$ . Classify the polygon by the number of sides.
12. Find the value of  $x$ .



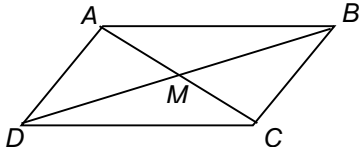
13. Solve for  $x$ .



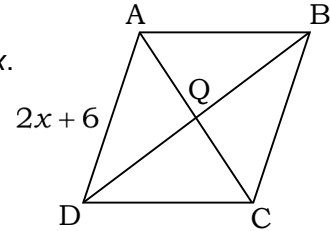
14. If the measure of one of the angles of a rectangle is  $(6x+24)^\circ$ , then find the value of  $x$ .
15. If the length of one of the diagonals of a rectangle is 52 inches, then what is the length of the other?
16. In parallelogram  $MLHS$ ,  $m\angle M = (8x-20)^\circ$  and  $m\angle L = (5x+10)^\circ$ . Find the value of  $x$ .



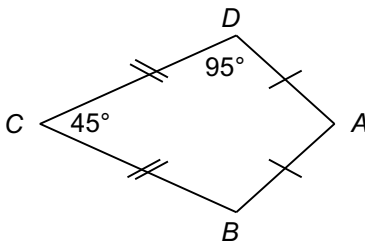
17. In parallelogram  $ABCD$ , the two diagonals intersect each other at point  $M$ . If  $AC = 25$  inches, then what is the length of  $\overline{MC}$ ?



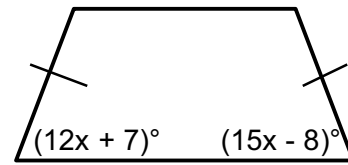
18. Rhombus  $ABCD$  has a perimeter of 72 inches. Find the value of  $x$ .



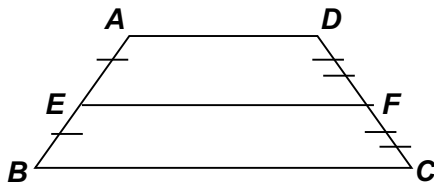
19. Find the measure of  $\angle A$  and  $\angle B$ .



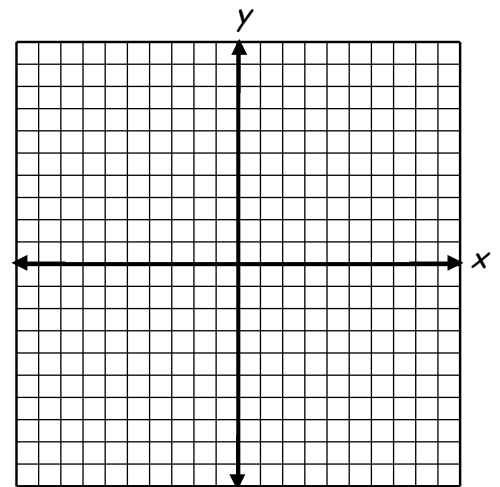
20. Find the value of  $x$  for the following isosceles trapezoid.



21. If  $AD = 3$  and  $BC = 17$ , find  $EF$ .



22. Figure  $ABCD$  has vertices:  $A(4, 6)$ ;  $B(8, 7)$ ;  $C(7, 3)$ ;  $D(3, 2)$ .  
What is the best name for figure  $ABCD$ ?



\*\*\*Be sure you know and can use all the properties of special quadrilaterals\*\*\*\*

\*\*Review previous homework and quizzes\*\*