

# Chapter 6 Test, Form 3

score \_\_\_\_\_

- The sum of the interior angles of an animal pen is  $900^\circ$ . How many sides does the pen have?
- A convex hexagon has interior angles with measures  $x^\circ$ ,  $(3x - 105)^\circ$ ,  $(2x + 68)^\circ$ ,  $(3x - 31)^\circ$ ,  $(6x - 62)^\circ$ , and  $(9x - 100)^\circ$ . Find the value of  $x$  and the measure of each angle.
- Find the measure of each exterior angle of a regular 2n-gon.
- For parallelogram ABCD, find  $m\angle E$ .



- ABCD is a parallelogram with diagonals that intersect each other at E. If  $AE = x^2$  and  $EC = 6x - 8$ , find all possible values of AC.
- Determine whether the quadrilateral is a parallelogram. Justify your answer.



- For quadrilateral ABCD, the slope of  $\overline{AD}$  is  $\frac{2}{3}$  and the slope of  $\overline{BC}$  is  $-2$ . Find the slopes of  $\overline{CD}$  and  $\overline{BA}$  so that ABCD will be a parallelogram.
- In rectangle ABCD, find  $m\angle E$ .



- The diagonals of rhombus ABCD intersect at E. If  $m\angle BAE = \frac{2}{3}(m\angle ABE)$ , find  $m\angle BCD$ .
- The diagonals of square ABCD intersect at E. If  $AE = 2$ , find the perimeter of ABCD.
- For isosceles trapezoid ABCD, find  $AE$ .



- Points G and H are midpoints of  $\overline{AF}$  and  $\overline{BF}$  in regular hexagon ABCDEFG. If  $AB = 6$ , find  $GH$ .



- The vertices of trapezoid ABCD are  $A(30, -1)$ ,  $B(6, 6)$ ,  $C(-2, 6)$ , and  $D(-8, -1)$ . Find the length of the median.

1. 7

2. 36; 36, 47, 120, 178, 174, and 178

3.  $\frac{180}{n}$ 

4. 65

5. 8 or 32

6. Yes; the diagonals bisect each other.

7. slope of  $\overline{CD} = \frac{1}{2}$ ;  
slope of  $\overline{BA} = -2$ 

8. 28

9. 72

10.  $6\sqrt{2}$ 

11. 8

12. 6

13. 13

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