Name _____ Date _____ Hour _____

6.1 to 6.3 Review

1. ***(6.1)*** What is the sum of the exterior angles in a polygon?

a. 180º b. 360º c. (n-2)180 d. 180n e. None of the above

2. ***(6.1)*** What is the sum of the interior angles in a polygon?

a. 180º b. 360º c. (n-2)180 d. 180n e. None of the above

3. ***(6.2)*** Complete the sentence.

In a parallelogram, opposite angles are _____.

a. supplementary b. congruent c. parallel d. bisecting e. None

4. ***(6.2)*** Complete the sentence.

In a parallelogram, consecutive angles are _____.

a. supplementary b. congruent c. parallel d. bisecting e. None

5. ***(6.2)*** Complete the sentence.

The definition of a parallelogram says opposite sides are _____.

a. supplementary b. congruent c. parallel d. bisecting e. None

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6. ***(6.2)*** Complete the sentence.

In a parallelogram, opposite sides are also _____.

a. supplementary b. congruent c. parallel d. bisecting e. None

7. ***(6.2)*** Complete the sentence.

The diagonals of a parallelogram _____.

a. are supplementary b. are congruent c. are parallel

d. bisect each other e. None

8. ***(6.3)*** If a quadrilateral has one set of opposite sides parallel and congruent, the quadrilateral can be classified as a parallelogram.

a. Yes b. No

9. ***(6.3)*** If a quadrilateral has one set of opposite sides parallel, the quadrilateral can be classified as a parallelogram.

a. Yes b. No

10. ***(6.3)*** If a quadrilateral has one angle that is 90 degrees, can we classify the quadrilateral as a parallelogram?

a. Yes b. No

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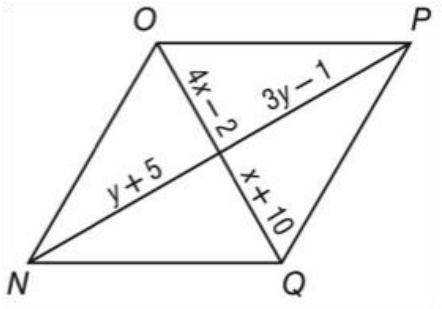
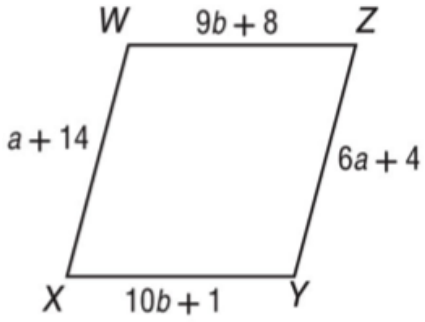
11. ***(6.1)*** Find the measure of one interior angle and one exterior angle in a regular hexagon.

12. ***(6.1)*** You know that an interior angle of a regular polygon is 108 degrees. Find how many sides this regular polygon has.

13. ***(6.3)*** Find the values of x and y so that the quadrilateral is a parallelogram.



14. ***(6.2)*** Find the values of a and b if WXYZ is a parallelogram.



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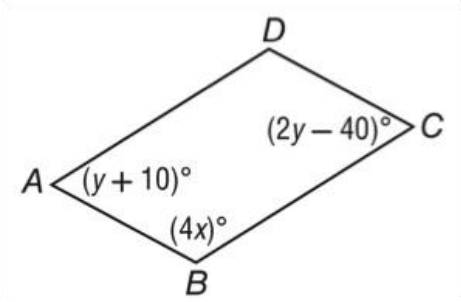
15. ***(6.2)*** Find the coordinates of the intersection of the diagonals of parallelogram HJKL given H(1,1), J(2,3), K(6,3), L(5,1)

16. ***(6.3)*** Determine if quadrilateral SRTZ is a parallelogram using the distance formula. S(-2,1), R(1,3), T(2,0), Z(-1,-2)

17. ***(6.2)*** Find the values of x and y if ABCD is a parallelogram.



18. On a scale of 0-5, how prepared do you feel for the quiz after finishing this review guide?

19. What do you feel you need to study before the quiz on Monday?