Geometry—Unit 6 Study Guide

Name _____   **Date:** _____

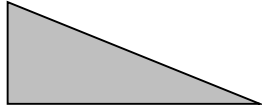1. What is the name of this figure?   A. triangle   B. parallelogram   C. square   D. trapezoid

2. What is the name of the following type of quadrilateral?

    A. square   B. rhombus   C. rectangle   D. trapezoid

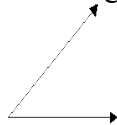3. Which of the following statements describes the shape below?

    a. The shape has neither parallel nor perpendicular sides.
    b. The shape has both parallel and perpendicular sides.
    c. The shape has perpendicular but not parallel sides.
    d. The shape has parallel but not perpendicular sides.

4. Which of the following has four right angles, opposite sides congruent, and two sets of parallel sides?

    a. circle   b. right triangle   c. rectangle   d. trapezoid
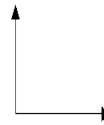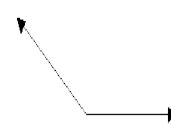
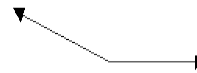5. Which angle(s) below are right angles?

    A.   B.   C.   D.

    A.   A, B, and C
    B.   B and D
    C.   B
    D.   C

6. Is the angle below more than 90°, less than 90°, or equal to 90°?

    a. more than 90°   b. equal to 90°   c. less than 90°   d. none of the above

7. A triangle has angles that measure 20°, 70°, and 90°. What kind of triangle is it?
    a. obtuse   b. right   c. acute   d. none of the above

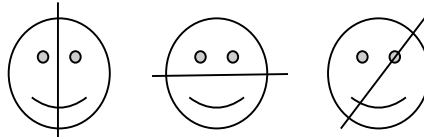8. How many sets of parallel sides does the figure below have?

    a. 0   b. 1   c. 2   d. 3

9. A triangle has angles that measure 110°, 40°, and 30°. What kind of triangle is it?

        a. obtuse   b. right   c. acute   d. none of the above

10. A four-sided figure with four congruent sides and four right angles is called a _____.

        A. trapezoid   B. triangle   C. square   D. pentagon

11. A triangle has angles that measure 60°, 60°, and 60°. What kind of triangle is it?

        a. obtuse   b. right   c. acute   d. none of the above

12. A triangle has the side measurements of 6in, 4in, and 6in. What type of triangle is it?

    a. isosceles   b. right   c. scalene   d. equilateral

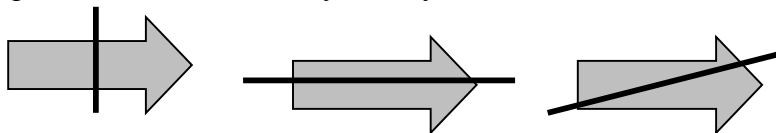13. Which of the following statements describes the shape below?

a. The shape has both parallel and perpendicular sides.
b. The shape has neither parallel nor perpendicular sides.
c. The shape has perpendicular but not parallel sides.
d. The shape has parallel but not perpendicular sides.

14. A triangle has the side measurements of 7in, 3in, and 5in. What type of triangle is it?

    a. isosceles   b. right   c. scalene   d. equilateral

15. A triangle has the side measurements of 5in, 5in, and 5in. What type of triangle is it?

    a. isosceles   b. right   c. scalene   d. equilateral

16. Which of the following has four right angles, four sides, opposite sides congruent, and two sets of parallel sides?

        a. right triangle   b. rectangle   c. general   d. trapezoid

17. Which picture shows a line of symmetry?

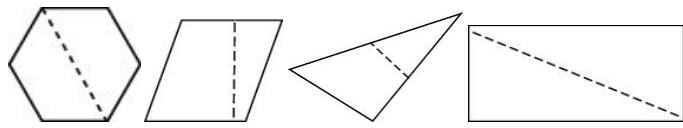18. Which picture shows a line of symmetry?

19. Please write the following comparison as an equation :   144 times as many as 6

20. Which figure below has a line of symmetry?
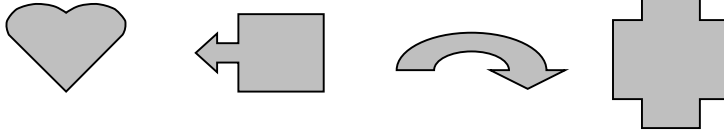
     N   J   P   A

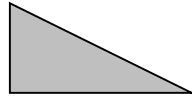21. Which figure shows a line of symmetry?

22. Circle the right triangles.

23. Which picture below does *not* have a line of symmetry?

24. Which letter has at least 2 lines of symmetry?

B   H   Y   C

25. How many sets of **perpendicular** line segments does the figure below have?
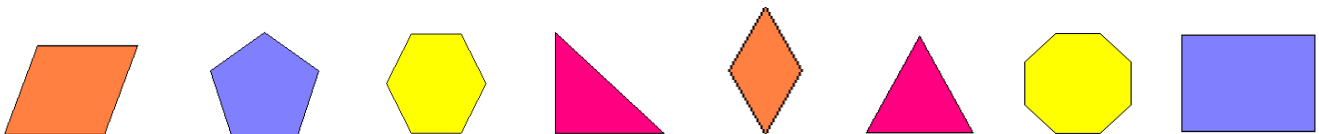
a. 1   b. 2   c. 3   d. 0

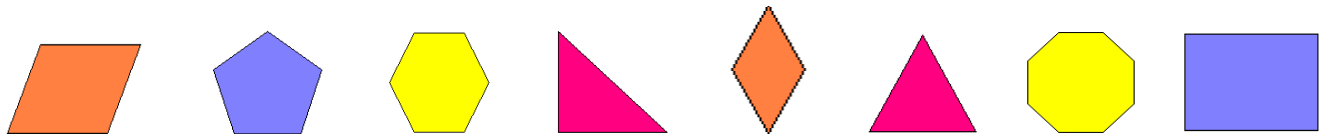26. How many sets of **perpendicular** line segments does the figure below have?

a. 0   b. 2   c. 3   d. 4

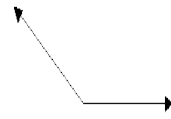27. Look at all the shapes below. Which shapes have **neither parallel nor perpendicular** line segments?

28. Circle the shapes that have **parallel** line segments.

29. Draw parallel lines and label them TR and LK.

30. Draw perpendicular lines LM and WR.

31. Is the angle to the right more than 90°, less than 90°, or equal to 90°?

    a. more than 90°   b. equal to 90°   c. less than 90°   d. none of the above

32. Name one way a square and rectangle are alike and one way they are different.

Alike:_____

Different:_____

33. Name one way a parallelogram and rectangle are alike and one way they are different.

Alike:_____

Different:_____

34. Which number is a factor of 20 but not a multiple of 4?

A. 2

B. 8

C. 3

D. 4

20	

Multiples of 4:

35. I made 284 cookies. I packed them in boxes of 6. How many cookies will I have leftover?

36. My rectangle has an area of 15 square inches. The width is 5 inches. What is the length?