Name _____ Date _____ Period _____

<u>DIRECTIONS</u>: For #1-3, fill in the blanks with **always**, **sometimes**, or **never** to make the statements true.

- 1. Two squares are ______ similar.
- 2. Two congruent parallelograms are ______ similar.

3. An equilateral triangle and an isosceles triangle are ______ similar.

<u>DIRECTIONS</u>: For #4-10, write each ratio in its simplest form. Use the following diagram for #4-8.



DIRECTIONS: For #12-15, solve for *x*. Show work.



<u>DIRECTIONS</u>: For #16-18, solve the following problems. Write your answer in the provided blanks. Show all work.

- 16. The angles of a triangle are in a ratio of 3:4:8. What is the measure of each angle?
- **17.** The measures of two consecutive angles of a parallelogram are in the ratio of 17 : 3. Find the measure of each angle.
- **18.** The angles of a pentagon are in a ratio of 4:5:8:9:10. What is the measure of each angle?

<u>DIRECTIONS</u>: Use the following diagram to answer/solve #19-23. Show work when solving for segment lengths.



20. What is the scale factor of *ABCDE* to *VWXYZ*?

21. DE = _____ **22.** XY = _____ **23.** BC = _____

<u>DIRECTIONS</u>: Use the following diagram to answer/solve #24-27. Show work when solving for segment lengths.

