Algebra The polygons are similar. Find the value of each variable.   See Proble

18.

19.

20.
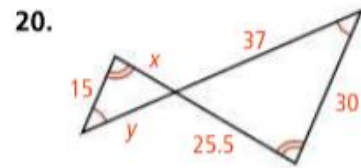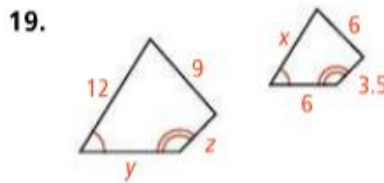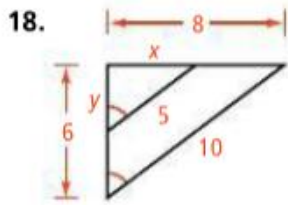
In the diagram below, △DFG ~ △HKM. Find each of the following.

25. the scale factor of △HKM to △DFG   **26.** m∠K

27. $\frac{GD}{MH}$ **28.** MK   **29.** GD
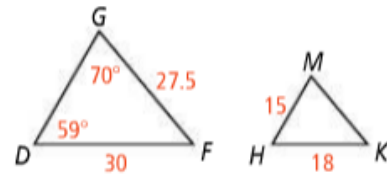
35. △JLK and △RTS are similar. The scale factor of △JLK to △RTS is 3 : 1. What is the scale factor of △RTS to △JLK?

Algebra Find the value of x. Give the scale factor of the polygons.

37. △WLJ ~ △QBV
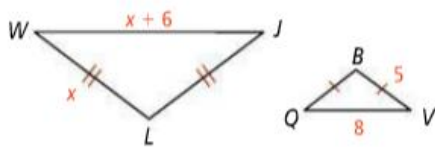
38. GKNM ~ VRPT
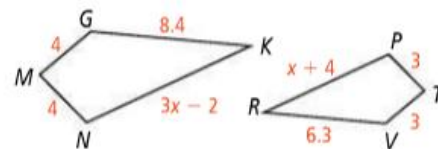
Determine whether each statement is *always, sometimes,* or *never* true.

43. Any two regular pentagons are similar.   **44.** A hexagon and a triangle are similar.

45. A square and a rhombus are similar.   **46.** Two similar rectangles are congruent.