

Answers

1. 1440°
2. 1980°
3. 58° ; 122° ; 134° ; 46°
4. 126° ; 130° ; 140° ; 120° ; 115° ; 154° ; 115°
5. 280° ; 40° ; 110° ; 70° ; 40°
6. 80° ; 100° ; 65° ; 115°
7. 60° ; 120° ; 90° ; 90°
8. yes; The triangles have the same angle measures, 95° , 46° , and 39° .
9. no; The triangles do not have the same angle measures.
10. 25 sides
11. a. Angles W and Z are right angles, so they are congruent. Angles WXV and ZXY are vertical angles, so they are congruent. Because two angles in $\triangle VWX$ are congruent to two angles in $\triangle YZX$, the third angles are also congruent and the triangles are similar.

b. 50 ft