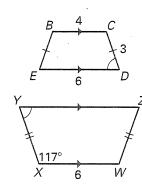
For use with pages 473-479

List all pairs of congruent angles and write the statement of proportionality for the figures.

- 1. $\triangle STU \sim \triangle CDE$
- **2.** △*LMN* ~ △*GHI*
- 3. quadrilateral QRST ~ quadrilateral ABCD

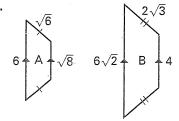
In the diagram quadrilateral BCDE ~ quadrilateral WXYZ.

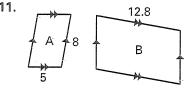
- 4. Find the scale factor of quadrilateral BCDE to quadrilateral WXYZ.
- 5. Find the scale factor of quadrilateral WXYZ to quadrilateral BCDE.
- **6.** Find the length of \overline{XY} .
- 7. Find the measure of $\angle D$.
- **8.** Find the perimeter of quadrilateral WXYZ.
- **9.** Find the ratio of the perimeter of WXYZ to the perimeter of BCDE.



Decide whether the polygons are similar. If so, find the scale factor of Figure A to Figure B.

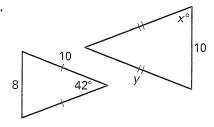
10.



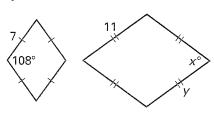


The two polygons are similar. Find the values of x and y.

12.



13.



- **14.** The ratio of one side of $\triangle ABC$ to the corresponding side of similar $\triangle DEF$ is 5:8. The perimeter of $\triangle DEF$ is 96 inches. What is the perimeter of $\triangle ABC$?
- **15.** The perimeter of $\square ABCD$ is 60 centimeters. The perimeter of $\square EFGH$ is 15 centimeters and $\square ABCD \sim \square EFGH$. The lengths of two of the sides of $\square ABCD$ are 18 centimeters each. Find the scale factor of $\square ABCD$ to $\square EFGH$, and the lengths of the sides of $\square EFGH$.