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## Practice C

For use with pages 473-479

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

1. $\triangle S T U \sim \triangle C D E$
2. $\triangle L M N \sim \triangle G H I$
3. quadrilateral $Q R S T \sim$ quadrilateral $A B C D$

In the diagram quadrilateral $B C D E \sim$ quadrilateral $W X Y Z$.
4. Find the scale factor of quadrilateral $B C D E$ to quadrilateral $W X Y Z$.
5. Find the scale factor of quadrilateral $W X Y Z$
 to quadrilateral $B C D E$.
6. Find the length of $\overline{X Y}$.
7. Find the measure of $\angle D$.
8. Find the perimeter of quadrilateral $W X Y Z$.

9. Find the ratio of the perimeter of $W X Y Z$ to the perimeter of $B C D E$.

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

10. 


11.


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

12. 


13.

14. The ratio of one side of $\triangle A B C$ to the corresponding side of similar $\triangle D E F$ is 5:8. The perimeter of $\triangle D E F$ is 96 inches. What is the perimeter of $\triangle A B C$ ?
15. The perimeter of $\square A B C D$ is 60 centimeters. The perimeter of $\square E F G H$ is 15 centimeters and $\square A B C D \sim \square E F G H$. The lengths of two of the sides of $\square A B C D$ are 18 centimeters each. Find the scale factor of $\square A B C D$ to $\square E F G H$, and the lengths of the sides of $\square E F G H$.

