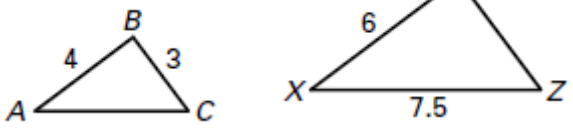
Name _____ Date _____

Assignment 58 Chapter 6 Test

In the diagram, $\Delta ABC \sim \Delta XYZ$.

1. Find *YZ*.

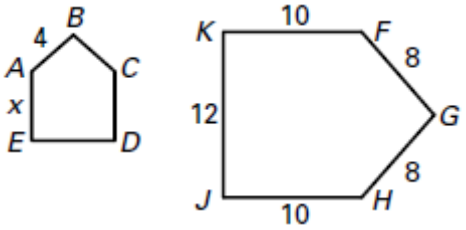
2. Find *AC*.



In the diagram, *ABCDE ~ FGHJK*.

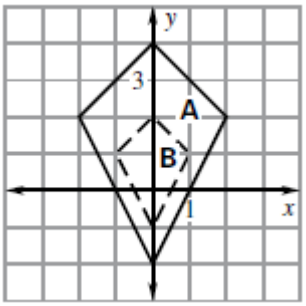
3. Find the value of *x*.

4. Find the perimeter of *ABCDE*.

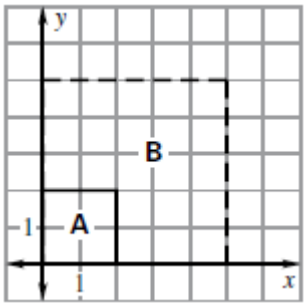


Determine whether the dilation from Figure A to Figure B is a *reduction* or an *enlargement*. Then find its scale factor.

5.

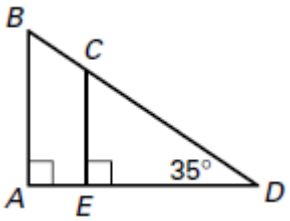


6.

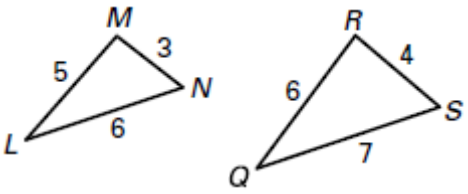


Determine whether the triangles are similar. If so, write a similarity statement and the postulate or theorem that justifies your answer.

7.

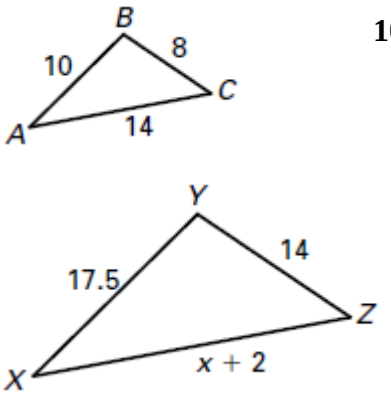


8.

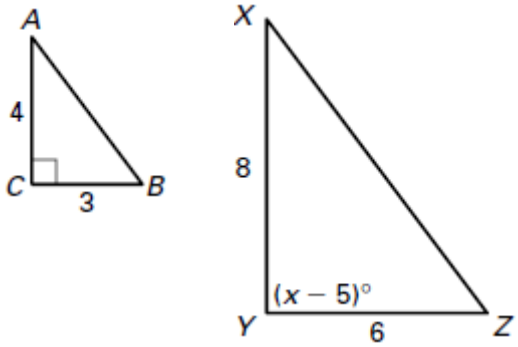


Determine the value of *x* that makes $\Delta ABC \sim \Delta XYZ$.

9.



10.



Answers

1. _____

2. _____

3. _____

4. _____

5. _____

_____

6. _____

_____

7. _____

_____

_____

_____

8. _____

_____

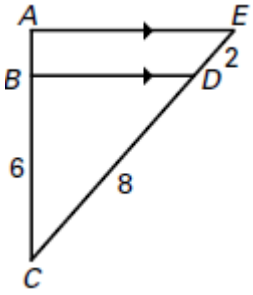
_____

9. _____

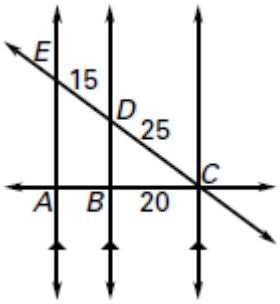
10. _____

In Exercises 11 and 12, find the length of $\overline{AB}$.

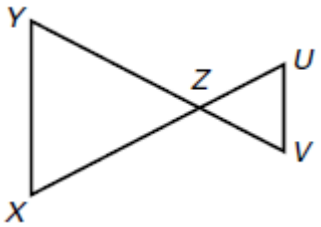
11.



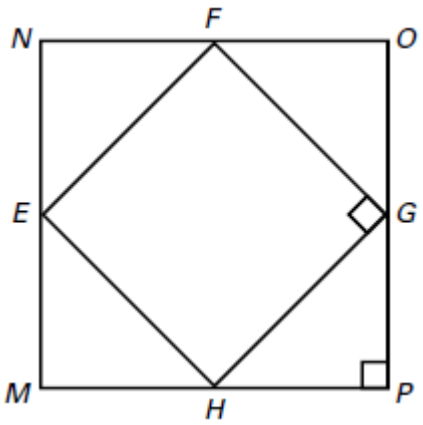
12.



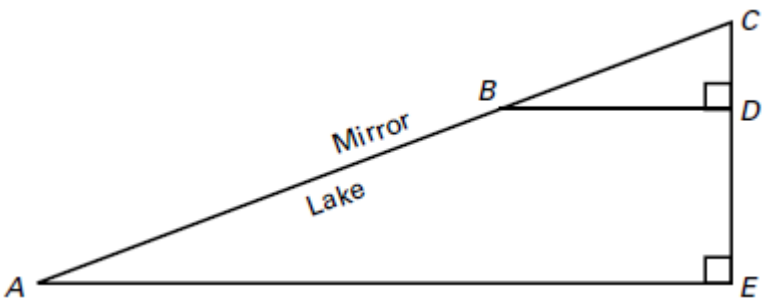
13. $\Delta ZXY \sim \Delta ZVU$. Describe the transformation(s) that move ΔZVU onto ΔZXY.



14. *MNOP* is similar to *EFGH*. Describe the transformation(s) that move *EFGH* onto *MNOP*.



15. A surveying technique is used to find the width of Mirror Lake. In the diagram, $\Delta ACE \sim \Delta BCD$. Find the width of the lake, *AB*.



Answers

11. _____

12. _____

13. _____

_____

14. _____

_____

15. _____