

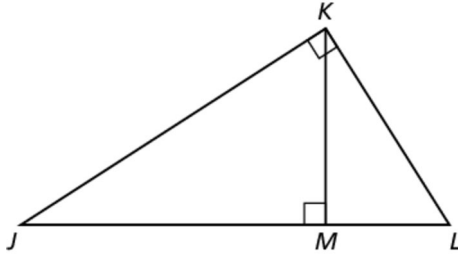
LESSON
12-4

Similarity in Right Triangles

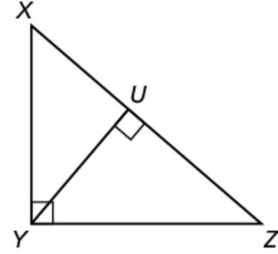
Practice and Problem Solving: A/B

In Exercises 1 and 2, write similarity statements for the three similar triangles. It might help to draw them side-by-side.

1.



2.



Find the geometric mean of each pair of numbers. If necessary, round to the nearest tenth.

6. $\frac{1}{4}$ and 4

7. 3 and 75

8. 4 and 18

9. $\frac{1}{2}$ and 9

10. 10 and 14

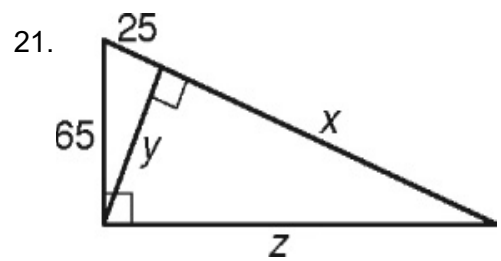
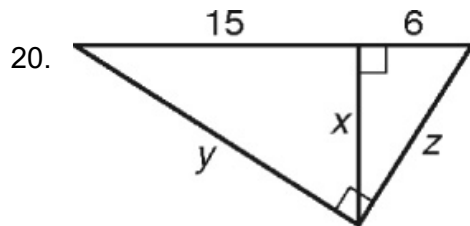
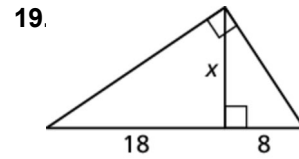
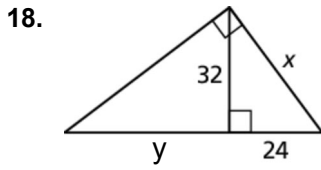
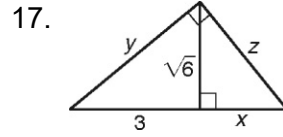
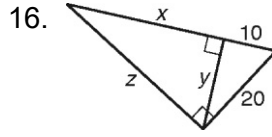
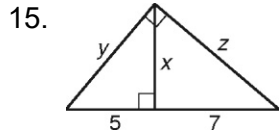
11. 4 and 12.25

12. 3 and 12

13. 4 and 14

14. 10 and 24

Find x , y , and z .



Find the geometric mean of each pair of numbers. If necessary, round to the nearest tenth.

4. 5 and 20

5. 3 and 12

6. 8 and 13

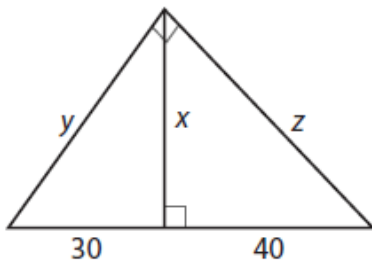
7. 3.5 and 20

8. 1.5 and 84

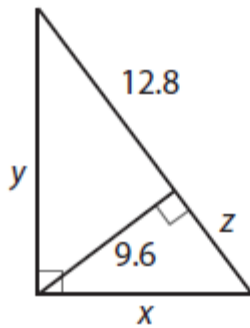
9. $\frac{2}{3}$ and $\frac{27}{40}$

Find x , y , and z .

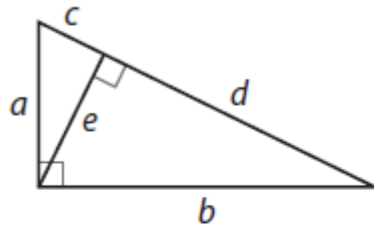
11.



12.



Use the diagram to complete each equation.



13. $\frac{c}{e} = \frac{\square}{d}$

14. $\frac{c}{a} = \frac{a}{\square}$

15. $\frac{c+d}{b} = \frac{b}{\square}$

16. $\frac{d}{\square} = \frac{e}{c}$