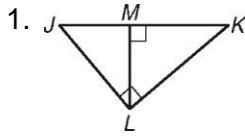


**LESSON**  
**17-4**

# Similarity in Right Triangles

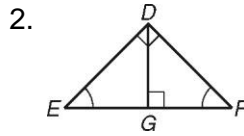
## Practice and Problem Solving: A/B

Write a similarity statement comparing the three triangles in each diagram.



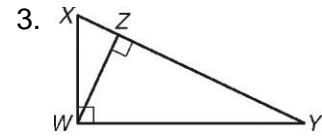
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Find the geometric mean of each pair of numbers. If necessary, give the answer in simplest radical form.

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

5. 3 and 75 \_\_\_\_\_

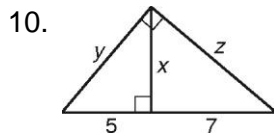
6. 4 and 18 \_\_\_\_\_

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

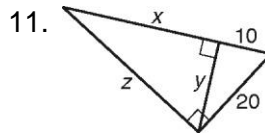
8. 10 and 14 \_\_\_\_\_

9. 4 and 12.25 \_\_\_\_\_

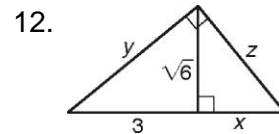
Find  $x$ ,  $y$ , and  $z$ .



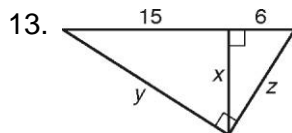
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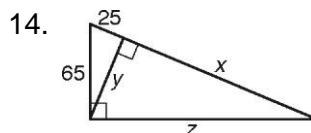
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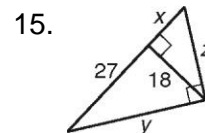
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**LESSON 17-4****Practice and Problem Solving: A/B**

1. Possible answers:  $\square JKL$   $\square JLM$   $\square LKM$
2.  $\square DEF$   $\square GED$   $\square GDF$
3.  $\square WXY$   $\square ZXW$   $\square ZWY$
4. 1
5. 15
6.  $6\sqrt{2}$
7.  $\frac{3\sqrt{2}}{2}$
8.  $2\sqrt{35}$
9. 7
10.  $\sqrt{35}$ ;  $2\sqrt{15}$ ;  $2\sqrt{21}$
11. 30;  $10\sqrt{3}$ ;  $20\sqrt{3}$
12. 2;  $\sqrt{15}$ ;  $\sqrt{10}$
13.  $3\sqrt{10}$ ;  $3\sqrt{35}$ ;  $3\sqrt{14}$
14. 144; 60; 156
15. 12;  $9\sqrt{13}$ ;  $6\sqrt{13}$