Name _____ Class _____ Date _____

Practice 7-4 **Similarity in Right Triangles**

Algebra **Find the geometric mean of each pair of numbers.**

1. 32 and 8 **2.** 4 and 16 **3.** 11 and 7

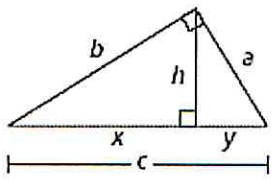
4. 2 and 22 **5.** 10 and 20 **6.** 6 and 30

Use a proportion $\frac{a}{x} = \frac{x}{b}$

Algebra **Refer to the figure to complete each proportion.**

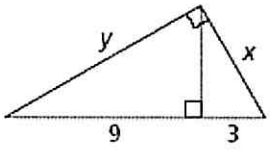
7. $\frac{x}{h} = \frac{?}{y}$ **8.** $\frac{a}{b} = \frac{?}{h}$ **9.** $\frac{a}{b} = \frac{h}{?}$

10. $\frac{a}{c} = \frac{y}{?}$ **11.** $\frac{a}{c} = \frac{h}{?}$ **12.** $\frac{b}{x} = \frac{?}{b}$



Algebra **Find the values of the variables.**

13.



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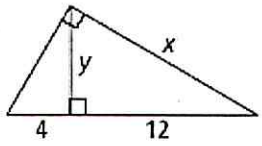

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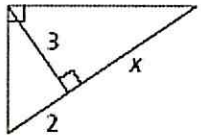

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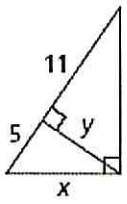

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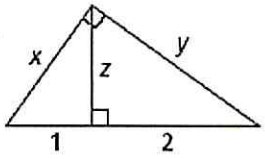
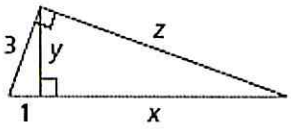


18.



19. The altitude to the hypotenuse of a right triangle divides the hypotenuse into segments 6 in. and 10 in. long. Find the length *h* of the altitude. Draw a picture first.

For 13-19, Set up and solve using proportions!