Name _____ Class _____ Date _____

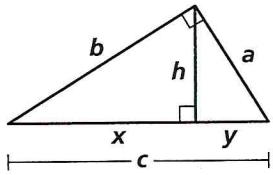
Practice 7-4

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

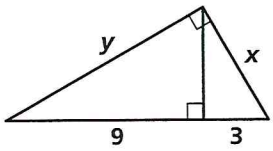
Algebra **Refer to the figure to complete each proportion.**



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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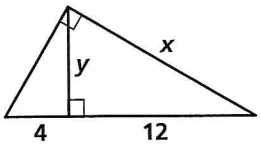

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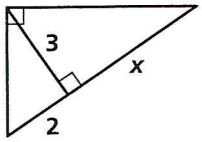

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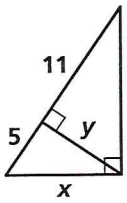

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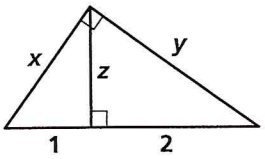

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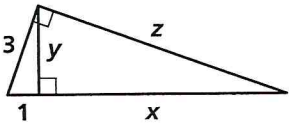

19. The altitude to the hypotenuse of a right triangle divides the hypotenuse into segments 6 in. and 10 in. long. Find the length h of the altitude.