

# Practice 7-4

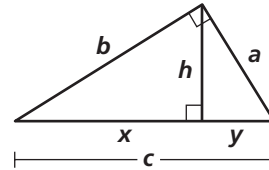
## Similarity in Right Triangles

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

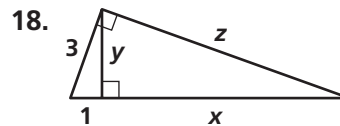
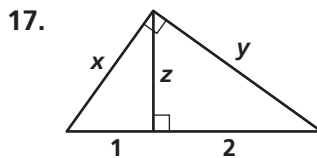
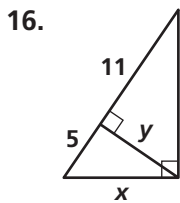
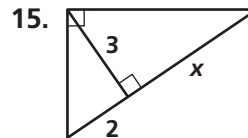
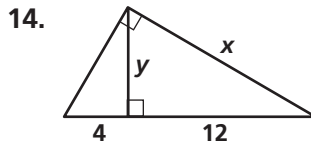
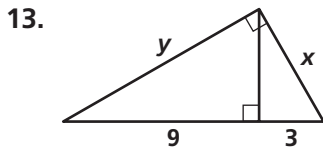
1. 32 and 8      2. 4 and 16      3. 11 and 7  
 4. 2 and 22      5. 10 and 20      6. 6 and 30

**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.



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.