Name _____ Class _____ Date _____

Practice 7-4 and 7-5 Worksheet

Find the geometric mean of each pair of numbers.

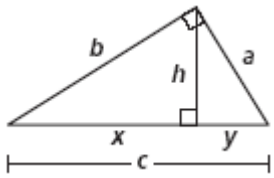
1. 32 and 8 **2.** 4 and 16 **3.** 11 and 7

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

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.** $\frac{b}{x} = \frac{?}{b}$

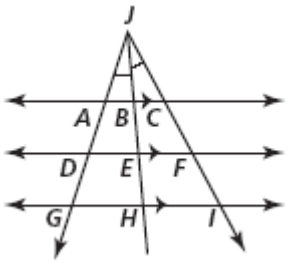


Use the figure at the right to complete each proportion.

13. $\frac{AD}{DG} = \frac{?}{EH}$ **14.** $\frac{CF}{BE} = \frac{FI}{?}$

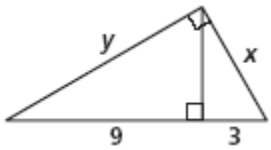
15. $\frac{JA}{JC} = \frac{AB}{?}$ **16.** $\frac{JF}{FE} = \frac{?}{DE}$

17. $\frac{GH}{HI} = \frac{?}{?}$ **18.** $\frac{AD}{AG} = \frac{?}{BH}$

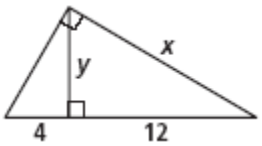


Find the values of the variables.

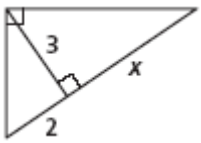
19.



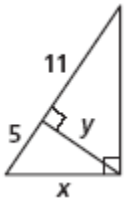
20.



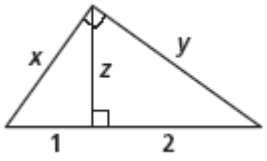
21.



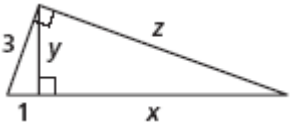
22.



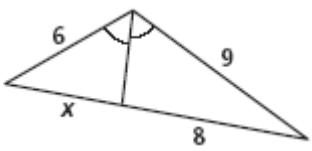
23.



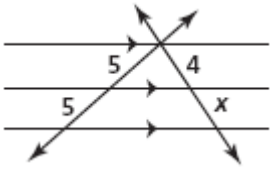
24.



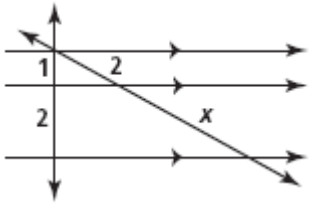
25.



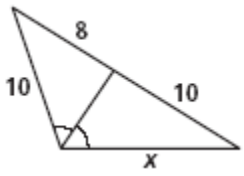
26.



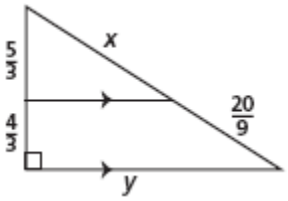
27.



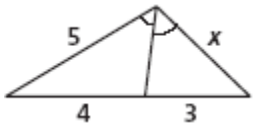
28.



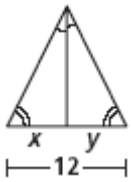
29.



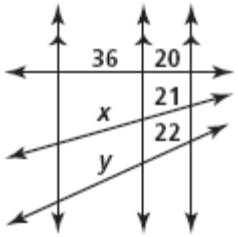
30.



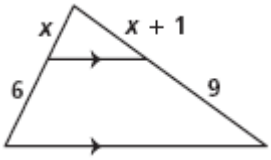
31.



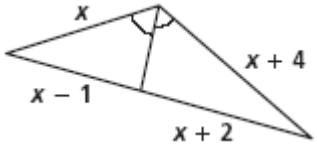
32.



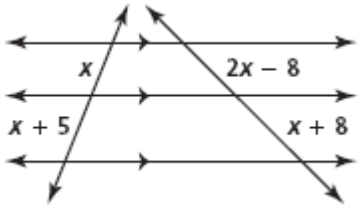
33.



34.



35.



36. 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.