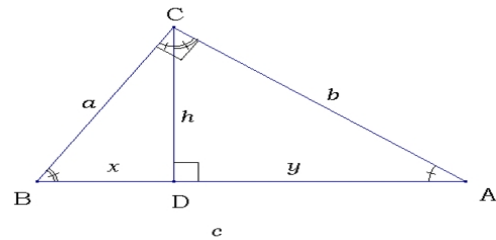# *Worksheet on Geometric Mean*
and Simplifying Radicals

_____ 1.   Find the geometric mean between 96 and 150.

_____ 2.   Find the geometric mean between 98 and 32.

_____ 3.   Find the geometric mean between 56 and 126.

_____ 4.   If $144 : x = x : 1225$, then $x = $ _____.

_____ 5.   If $18 : x = x : 128$, then $x = $ _____.

_____ 6.   If $2809 : x = x : 784$, then $x = $ _____.

_____ 7.   Solve for x. $\dfrac{25}{x} = \dfrac{x}{49}$

_____ 8.   Solve for x. $\dfrac{686}{x} = \dfrac{x}{5600}$

_____ 9.   Solve for x. $\dfrac{48}{x} = \dfrac{x}{27}$

In the figure to the right, suppose $y = 3969$ and $b = 4095$.

_____ 10. Find c.

_____ 11. Find x.

_____ 12. Find h.

_____ 13. Find a.

In the figure to the right, suppose $y = 5184$ and $x = 900$.

_____ 14. Find c.

_____ 15. Find h.

_____ 16. Find a.

_____ 17. Find b.