Correct. The information leads to the equation x(20-x)=84. This becomes $20x-x^2=84$ or $0=x^2-20x+84$. Use the Quadratic Formula:

$$x = \frac{-(-20) \pm \sqrt{(-20)^2 - 4 \cdot 1 \cdot 84}}{2 \cdot 1} = \frac{20 \pm \sqrt{400 - 336}}{2} = \frac{20 \pm \sqrt{64}}{2} = \frac{20 \pm 8}{2}$$

So x = 14 or 6. The baker charged \$6 for one cake.