2. a. Seedup1 $= \dfrac{\text{Execution time old}}{\text{Execution time new}} = \dfrac{1}{(1 - \text{Fraction}) + \dfrac{\text{Fraction}}{\text{seedup}}}$

$= \dfrac{1}{(1 - 0.2) + \dfrac{0.2}{\infty}} = 1.11$

b. Seedup $= \dfrac{\text{Execution time old}}{\text{Execution time new}} = \dfrac{1}{(1 - \text{Fraction}) + \dfrac{\text{Fraction}}{\text{seedup}}}$

$= \dfrac{1}{(1 - 0.2 - 0.1) + \dfrac{0.2}{2} + \dfrac{0.1}{2/3}} = 1.05$

c. $\dfrac{0.2/2}{(1 - 0.2 - 0.1) + \dfrac{0.2}{2} + \dfrac{0.1}{2/3}} = 10.5\%$

$\dfrac{0.1/(2/3)}{(1 - 0.2 - 0.1) + \dfrac{0.2}{2} + \dfrac{0.1}{2/3}} = 15.8\%$