

Story Problems

1. $A \rightarrow$ adult ticket
 $S \rightarrow$ student ticket

$$7A + 3S = 10.25$$

$$3A + 7S = 7.25$$

$$\begin{array}{r} 3(7A + 3S = 10.25) \\ -7(3A + 7S = 7.25) \end{array}$$

$$\begin{array}{r} + \cancel{21}A + 9S = 30.75 \\ - \cancel{21}A - 49S = -50.75 \\ \hline \end{array}$$

$$\begin{array}{r} -40S = -20 \\ \cancel{-40} \quad \quad \quad \cancel{-40} \end{array}$$

$$S = 0.5$$

\rightarrow Student tickets
 $\$ 0.50$

Solve for A:

$$A = \$1.25$$

2. $\$1.20 + \0.84

3. $\$0.12 + \0.05

4. $w = 90\text{cm}$

$$l = 180\text{cm}$$

5. $25 + 20$