

7 Sean

$$M + S = .6$$

$$S + H = .8 \quad \text{or} \quad S = .8 - H$$

$$S + M + H = .9$$

$$M + .8 - H = .6$$

$$M = .6 - .8 + H$$

$$M = -.2 + H$$

$$(\cancel{.8 - H}) + (-.2 + H) + H = .9$$

$$.6 + H = .9$$

$$H = .3$$

$$S + .3 = .8 \quad \rightarrow \quad M + S = .6$$

$$S = .5$$

$$M = .1$$

$$\boxed{H = .3, S = .5, M = .1}$$

Check

$$.1 + .5 = .6 \quad \checkmark$$

$$.5 + .3 = .8 \quad \checkmark$$

$$.3 + .5 + .1 = .9 \quad \checkmark$$