(1) **[8]** A box contains two types of chocolate candies: caramels and creams. A box contains 60 candies and sells for \$8.00. Caramels cost \$0.12 each to produce while the creams cost \$0.16 each to produce. How many of each type of candy should a box contain so that there is no profit or loss?

(2) **[7]** A manufacturer produces paper hats for a sporting event. The hats cost $0.50 each to produce and there is a one time cost of $240 to initiate production. The hats sell for $1.10 each. Determine the break even point.