

(1) [8] A box contains two types of doughnuts: plain and jelly. A box contains 30 doughnuts and sells for \$15.00. Plain doughnuts cost \$0.40 each to produce while the jelly doughnuts cost \$0.60 each to produce. How many of each type of doughnut 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.