



The owner of a coffee shop has decided to introduce two new blends of coffee in order to attract new customers--a *Deluxe Blend* and a *Savory Blend*. Each pound of the deluxe blend contains 30% Colombian and 20% Sumatran coffee, while each pound of the savory blend contains 35% Colombian and 15% Sumatran coffee (the remainder of each is made up of cheap and plentiful domestic varieties.) The profit on the deluxe blend will be \$1.25/lb, while the profit on the savory blend will be \$1.40/lb. How many pounds of each should the owner make in order to maximize profit if only 455 lb of Colombian coffee and 250 lb of Sumatran coffee are currently available?