

## Cat Diet Problem

Myrrh, the Cat, loves food. His owner is the best, and buys him both soft canned food and treats. One can of soft food brings him 5 units of joy and one treat brings him 2 units of joy. Myrrh has unlimited demand for treats, but only wants at most 1.5 cans of soft food per day. Everyone loves Myrrh and wants him to live forever, therefore we only allow him 120 calories per day, when a can of food has 75 calories and each treat has 1 calorie. Although he would like to, we won't let him eat treats all day and limit him to at most 20 treats per can of soft food he eats per day (he is spoiled). For example, if he eats 1 can of soft food he can have at most 20 treats, 1.5 cans of soft food means he can have 30 treats, and so on. What should we feed Myrrh in order to make him the happiest purring cat?

