Ayang imchem is the manager of casto cheese, which produces cheese spreads and other cheese related products. E-Z spread cheese is a product that has always been popular. The probability of sales, cases, is as follows:

|  |  |
| --- | --- |
| Demand (cases) | Probability |
| 10 | 0.2 |
| 11 | 0.3 |
| 12 | 0.2 |
| 13 | 0.2 |
| 14 | 0.1 |

A case of E-Z spread cheese sells for $ 100 and has a cost of $ 75. Any cheese that is not sold by the end of the week is sold to a local food processor for $ 50. Teresa never sells cheese that is more than a week old. Use marginal analysis to determine how many cases of E-Z spread cheese to produce each week to maximize average profit.