|  |  |
| --- | --- |
| **Descriptive modeling** | **Prescriptive modeling** |
| Correlation analysis | Simulation models |
| Descriptive statistics | Optimization models |

1. Expected value
2. F
3. F

|  |  |
| --- | --- |
| **a** | Linear |
| **b** | Non-linear |
| **c** | Non-linear |
| **d** | linear |

1. 1. Z = 24
   2. Z= 45
   3. Z= 44
   4. Z= -26

7.

8.

9. b.. total purchase and easy listening

c.. there is no change in the optimal solution

10. 0.32%

11.c.. solver

12, b. the solutions stays unchanged.

c.