A manager in charge of the development of new products could hire engineers and market researchers. The annual salary for an engineer is $ 40,000 while a market researcher receives $ 20.000. The marginal contribution of both is given in the table below. Determine what combination of engineers and market Researchers the company would use to maximize the new products with a budget of $ 140,000.

Enginer (E) Marker Researcher (R)

 Additional Additional

Worker New Products Worker New Products

1st 240 1st 80

2nd 200 2nd 70

3rd 160 3rd 60

4th 100 4th 50

5th 40 5th 40