x1, x2, x3 >= 0

| 6x1 - 8x2 - 7x3 - 0S1 - 0S2 - 0S3 = 0 |
|---|
| 2x1 + 4x2 + 6x3 + 0S1 + 0S2 + 0S3 <= 12 |
| 6x1 + 7x2 + 4x3 + 0S1 + 0S2 + 0S3 <= 12 |
| 8x3 + 0S1 + 0S2 + 0S3 <=16 |

| | x1 | x2 | х3 | S1 | S2 | S3 | NK | index |
|----|----|----|----|----|----|----|----|-------|
| Z | -6 | -8 | -7 | 0 | 0 | 0 | 0 | - |
| S1 | 2 | 4 | 6 | 1 | 0 | 0 | 12 | 3 |
| S2 | 6 | 7 | 4 | 0 | 1 | 0 | 32 | 32/7 |
| S3 | 0 | 0 | 8 | 0 | 0 | 1 | 16 | - |

| | x1 | x2 | х3 | S1 | S2 | S3 | NK | index |
|----|-----|----|-------|------|----|----|----|-------|
| Z | -2 | 0 | 5 | 2 | 0 | 0 | 0 | - |
| X2 | 1/2 | 1 | 3/2 | 1/4 | 0 | 0 | 3 | 6 |
| S2 | 5/2 | 0 | -13/2 | -7/4 | 1 | 0 | 11 | 22/5 |
| S3 | 0 | 0 | 8 | 0 | 0 | 1 | 16 | - |

| | x1 | x2 | х3 | S1 | S2 | S3 | NK | index |
|----|----|----|-------|-------|------|----|------|--------|
| Z | 0 | 0 | -1/5 | 3/5 | 4/5 | 0 | 0 | - |
| X2 | 0 | 1 | 14/5 | 3/5 | -1/5 | 0 | 4/5 | 2/7 |
| X1 | 1 | 0 | -13/5 | -7/10 | 2/5 | 0 | 22/5 | -22/13 |
| S3 | 0 | 0 | 8 | 0 | 0 | 1 | 16 | - |

| | x1 | x2 | х3 | S1 | S2 | S3 | NK |
|----|----|-------|----|-------|-------|----|------|
| Z | 0 | 1/14 | 0 | 9/14 | 11/14 | 0 | 0 |
| X3 | 0 | 5/14 | 1 | 3/14 | -1/14 | 0 | 2/7 |
| X1 | 1 | 13/14 | 0 | -1/7 | 3/14 | 0 | 36/7 |
| S3 | 0 | -20/7 | 0 | -12/7 | 4/7 | 1 | 96/7 |

= 230/7

$$x1 = 36/7$$
 $x1 = gelondong$
 $x2 = 0$ $x2 = meubel$
 $x3 = 2/7$ $x3 = triplek$
 $x3 = 6 \cdot 36/7 + 8.0 + 7.2/7$

2
$$z = 5x1 + 15x2 + 30x3$$
 $x1 = sederhana$
 $20x1 + 50x2 + 80x3 <= 4000$ $x2 = menengah$
 $x1 >= 1/2 (x1+x2+x3)$ $x3 = mewah$

$$x1, x2, x3 >= 0$$

20x1>= 50% .4000

x1 >= 100

80x3 <= 20% .4000

x3 <=10

50x2 = 4000 - (50%.4000) - (20%.4000)

x2 = 24

z = 5x1 + 15x2 + 30x3

= 5.100 + 15.24 + 30.10

= 1160