${\bf ClassName:}~{\bf Class_01.2bp\text{-}32}$

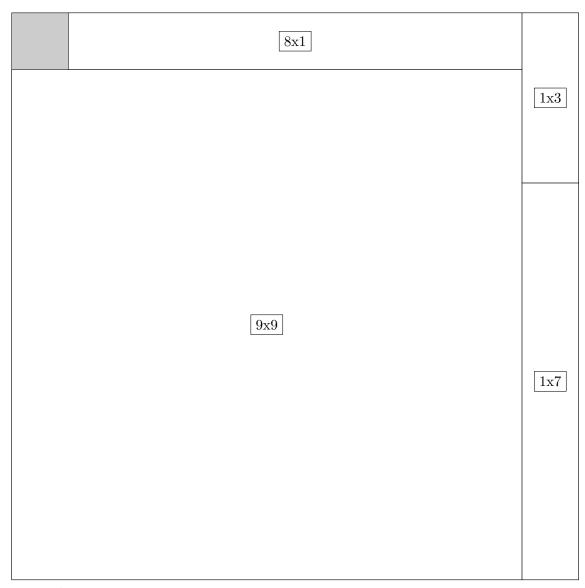
 $\begin{array}{ll} \text{BinSize: } \underline{\mathbf{10} \times \mathbf{10}} \\ \text{ReduceSize: } \underline{\mathbf{10} \times \mathbf{10}} \end{array}$

TypeNum: <u>58</u> Num: <u>80</u> OutS: <u>2700</u> InS: <u>2298</u> Rate: <u>0.851</u> UB: <u>27</u> LB: <u>27</u>

LBWithCut: $\underline{27}$ NodeCount: $\underline{0}$ PrimalNode: $\underline{0}$ ColumnCount: $\underline{27}$ TotalCutCount: $\underline{0}$ RootCutCount: $\underline{0}$ LPSolverCnt: $\underline{1}$ PricingSolverCnt: $\underline{0}$ BranchAndBoundNum: $\underline{1}$

isOpt: **true**

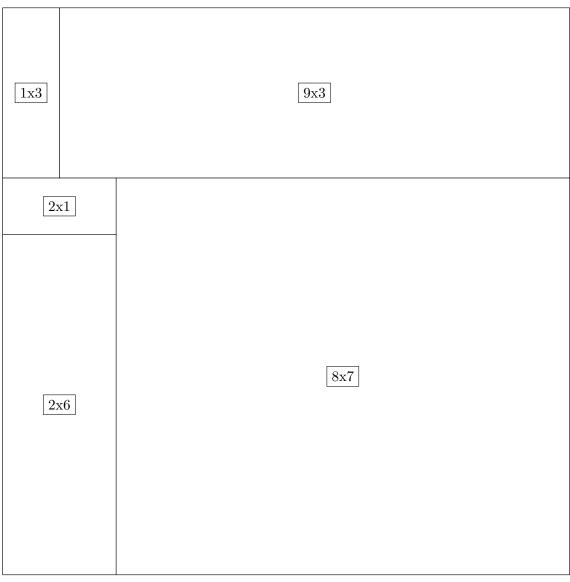
TimeOnPrimal: $\underline{0.000 \text{ s}}$ TimeOnPricing: $\underline{0.000 \text{ s}}$ TimeOnRmp: $\underline{0.078 \text{ s}}$ TotalTime: $\underline{0.219 \text{ s}}$



$$\begin{array}{l} w = 1 \ , \ h = 7 \ , \ x = 9 \ , \ y = 0 \ , \ v = 7 \\ w = 1 \ , \ h = 3 \ , \ x = 9 \ , \ y = 7 \ , \ v = 3 \end{array}$$

$$w = 9$$
 , $h = 9$, $x = 0$, $y = 0$, $v = 81$

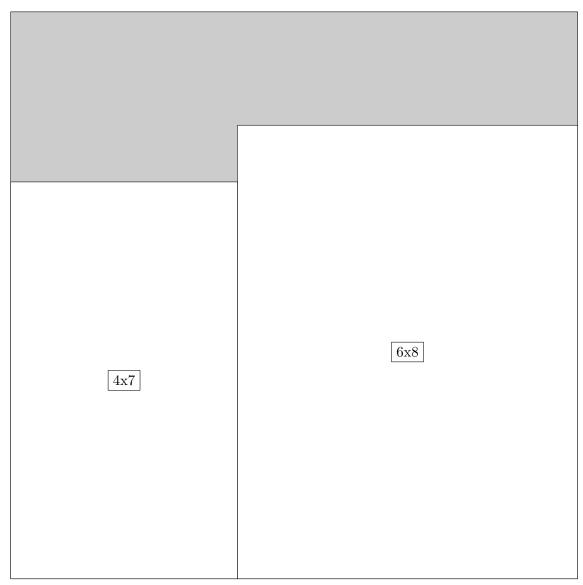
$$\mathbf{w}$$
 =8 , h =1 , x =1 , y =9 , v =8



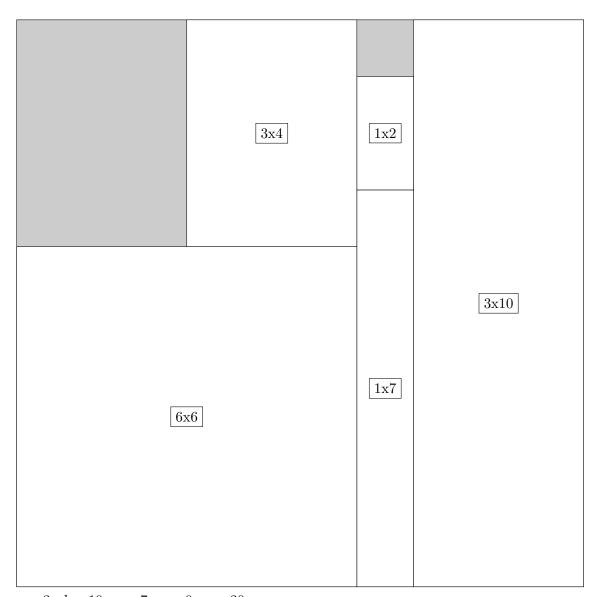
$$\begin{array}{l} w=8 \;,\; h=7 \;,\; x=2 \;,\; y=0 \;,\; v=56 \\ w=2 \;,\; h=6 \;,\; x=0 \;,\; y=0 \;,\; v=12 \\ w=2 \;,\; h=1 \;,\; x=0 \;,\; y=6 \;,\; v=2 \\ w=9 \;,\; h=3 \;,\; x=1 \;,\; y=7 \;,\; v=27 \\ w=1 \;,\; h=3 \;,\; x=0 \;,\; y=7 \;,\; v=3 \end{array}$$

| 2x1 | 8x1 |
|-----|------|
| | |
| | 10x6 |
| | |
| | |

$$\begin{array}{l} w = & 10 \ , \ h = & 6 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 60 \\ w = & 8 \ , \ h = & 1 \ , \ x = & 2 \ , \ y = & 6 \ , \ v = & 8 \\ w = & 2 \ , \ h = & 1 \ , \ x = & 0 \ , \ y = & 6 \ , \ v = & 2 \end{array}$$



w =6, h =8, x =4, y =0, v =48 w =4, h =7, x =0, y =0, v =28



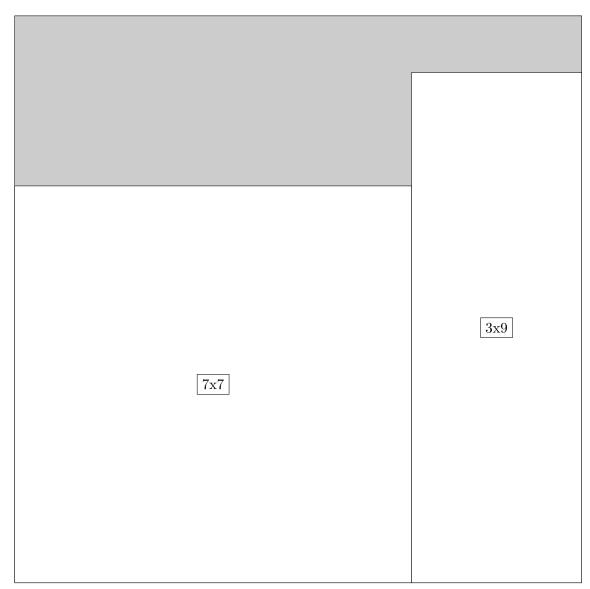
 $\le =3$, h =10 , x =7 , y =0 , v =30

 \mathbf{w} =1 , h =7 , x =6 , y =0 , v =7

 \mathbf{w} =1 , h =2 , x =6 , y =7 , v =2

 \mathbf{w} =6 , h =6 , x =0 , y =0 , v =36

w = 3, h = 4, x = 3, y = 6, v = 12



| 1x2 | 3x2 | 6x3 |
|-----|-----|-----|
| 1x8 | 3x8 | 6x7 |

 $\begin{array}{l} w=6\ ,\, h=7\ ,\, x=4\ ,\, y=0\ ,\, v=42\\ w=6\ ,\, h=3\ ,\, x=4\ ,\, y=7\ ,\, v=18\\ w=3\ ,\, h=8\ ,\, x=1\ ,\, y=0\ ,\, v=24\\ w=3\ ,\, h=2\ ,\, x=1\ ,\, y=8\ ,\, v=6\\ w=1\ ,\, h=8\ ,\, x=0\ ,\, y=0\ ,\, v=8\\ w=1\ ,\, h=2\ ,\, x=0\ ,\, y=8\ ,\, v=2\\ \end{array}$

| 22 | 3 | 8x3 |
|-----|----------|-----|
| 1x6 | | 9x6 |

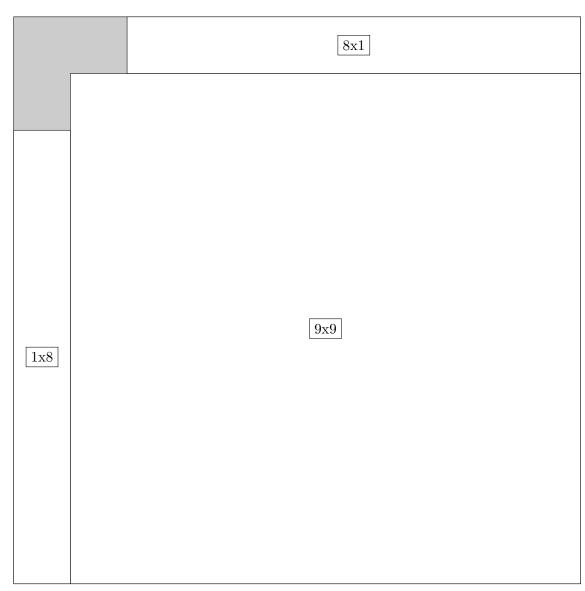
$$\begin{array}{l} w = 9 \ , \ h = 6 \ , \ x = 1 \ , \ y = 0 \ , \ v = 54 \\ w = 1 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 6 \\ w = 8 \ , \ h = 3 \ , \ x = 2 \ , \ y = 6 \ , \ v = 24 \\ w = 2 \ , \ h = 3 \ , \ x = 0 \ , \ y = 6 \ , \ v = 6 \end{array}$$



 \mathbf{w} =10 , h =10 , x =0 , y =0 , v =100

| 4x4 | 1x4 | $5\mathrm{x}4$ |
|-----|-----|----------------|
| 4x6 | | 6x6 |

 $\begin{array}{l} w=6 \ , \ h=6 \ , \ x=4 \ , \ y=0 \ , \ v=36 \\ w=5 \ , \ h=4 \ , \ x=5 \ , \ y=6 \ , \ v=20 \\ w=1 \ , \ h=4 \ , \ x=4 \ , \ y=6 \ , \ v=4 \\ w=4 \ , \ h=6 \ , \ x=0 \ , \ y=0 \ , \ v=24 \\ w=4 \ , \ h=4 \ , \ x=0 \ , \ y=6 \ , \ v=16 \end{array}$



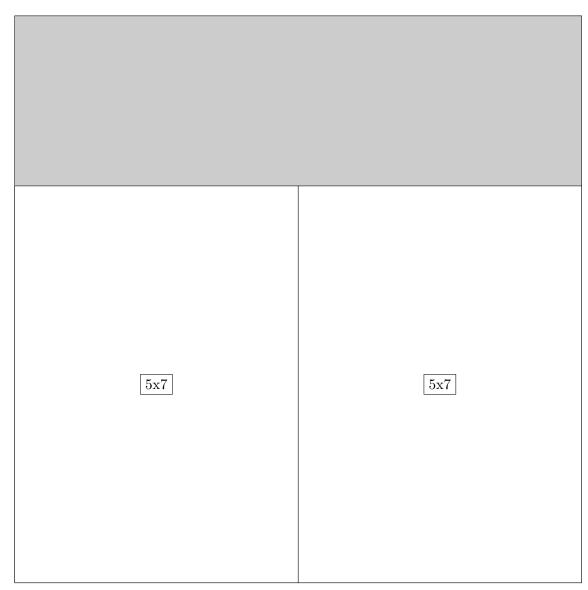
| 2x1 | | |
|-----|-----|----------------|
| | 1x4 | 7x4 |
| 2x9 | | $8\mathrm{x}6$ |
| | | |

$$\begin{array}{l} w=8 \;,\, h=6 \;,\, x=2 \;,\, y=0 \;,\, v=48 \\ w=7 \;,\, h=4 \;,\, x=3 \;,\, y=6 \;,\, v=28 \\ w=1 \;,\, h=4 \;,\, x=2 \;,\, y=6 \;,\, v=4 \\ w=2 \;,\, h=9 \;,\, x=0 \;,\, y=0 \;,\, v=18 \\ w=2 \;,\, h=1 \;,\, x=0 \;,\, y=9 \;,\, v=2 \end{array}$$

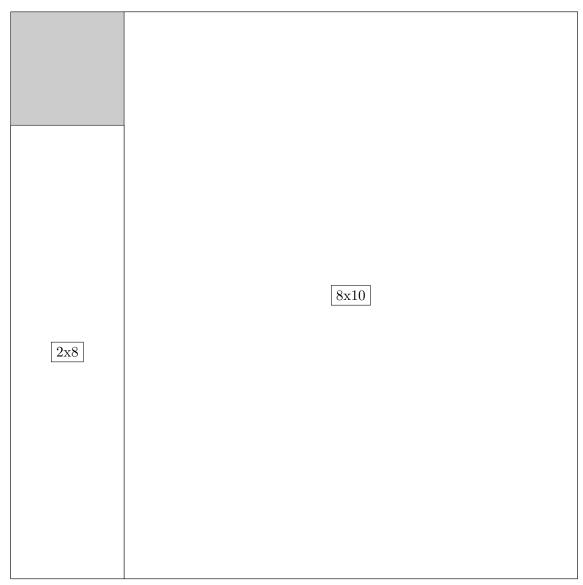
| [1x3] [2x3] | 7x5 |
|-------------|-----|
| | |
| 3x7 | 7x5 |

$$\begin{array}{l} w = 7 \;, \; h = 5 \;, \; x = 3 \;, \; y = 0 \;, \; v = 35 \\ w = 7 \;, \; h = 5 \;, \; x = 3 \;, \; y = 5 \;, \; v = 35 \\ w = 3 \;, \; h = 7 \;, \; x = 0 \;, \; y = 0 \;, \; v = 21 \\ w = 2 \;, \; h = 3 \;, \; x = 1 \;, \; y = 7 \;, \; v = 6 \end{array}$$

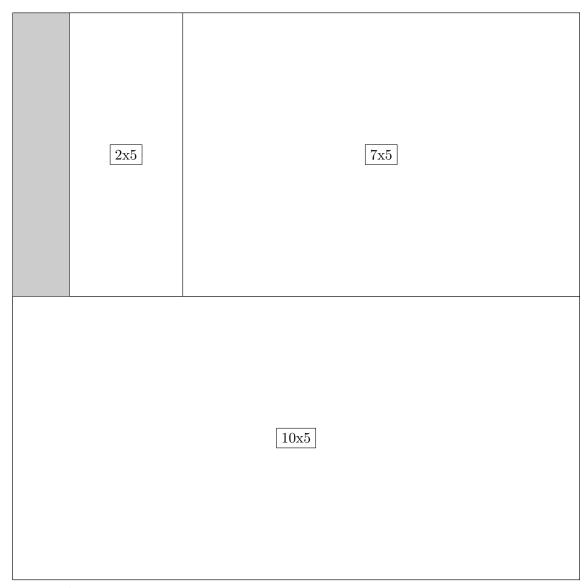
w = 1 , h = 3 , x = 0 , y = 7 , v = 3



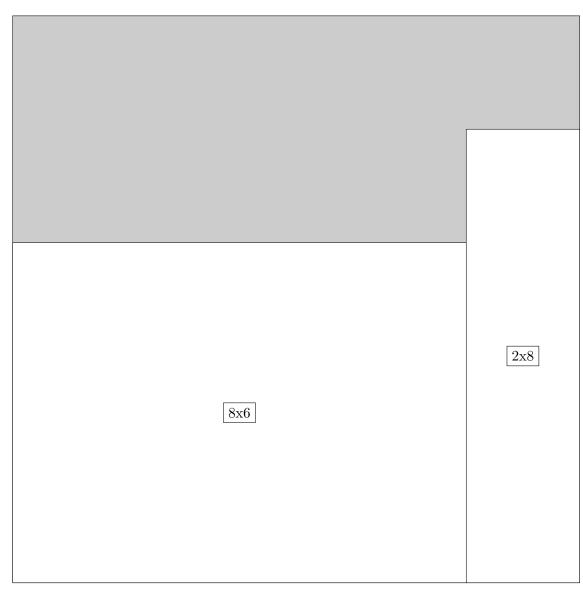
w =5 , h =7 , x =5 , y =0 , v =35 w =5 , h =7 , x =0 , y =0 , v =35

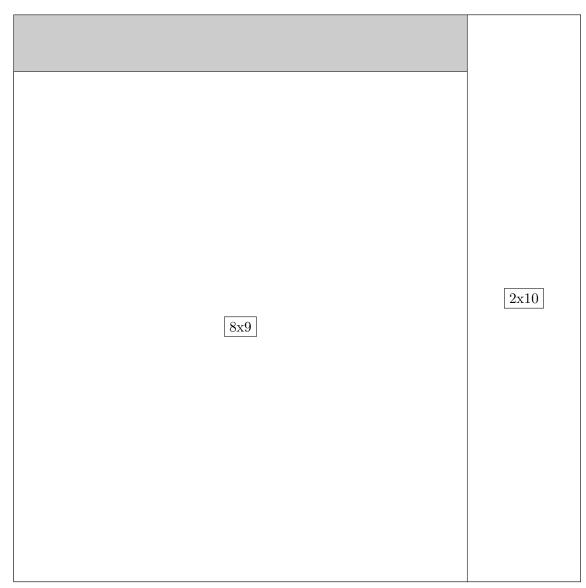


w =8, h =10, x =2, y =0, v =80 w =2, h =8, x =0, y =0, v =16

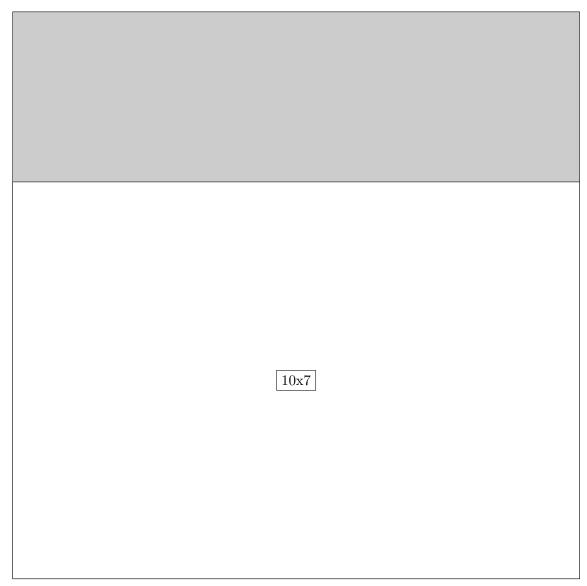


 $\begin{array}{l} w = & 10 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 50 \\ w = & 7 \ , \ h = & 5 \ , \ x = & 3 \ , \ y = & 5 \ , \ v = & 35 \\ w = & 2 \ , \ h = & 5 \ , \ x = & 1 \ , \ y = & 5 \ , \ v = & 10 \end{array}$

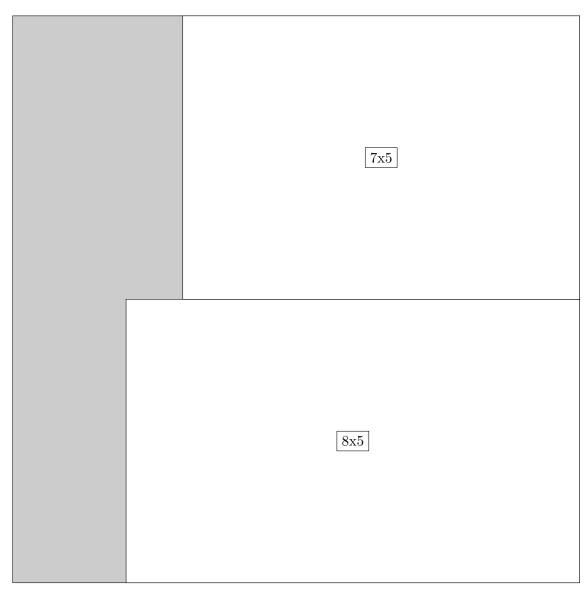




w =2 , h =10 , x =8 , y =0 , v =20 w =8 , h =9 , x =0 , y =0 , v =72

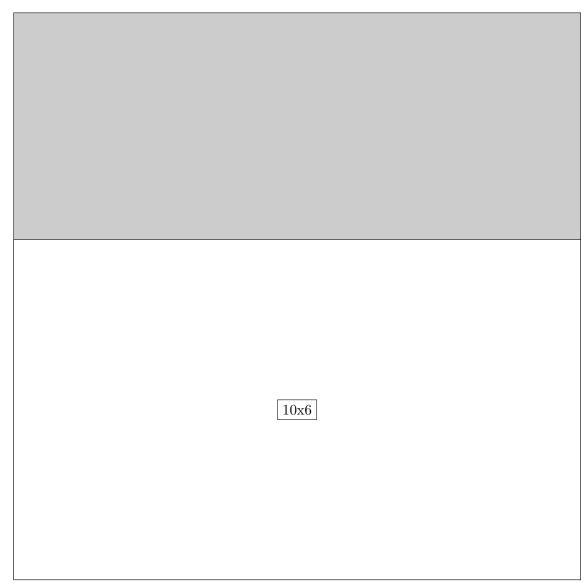


w = 10, h = 7, x = 0, y = 0, v = 70

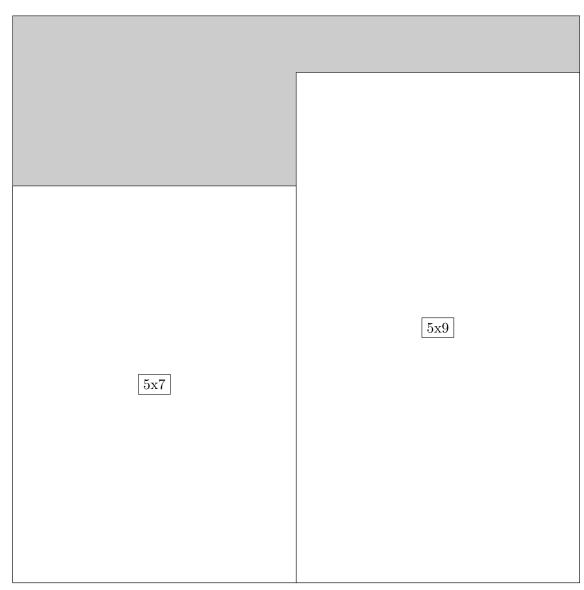


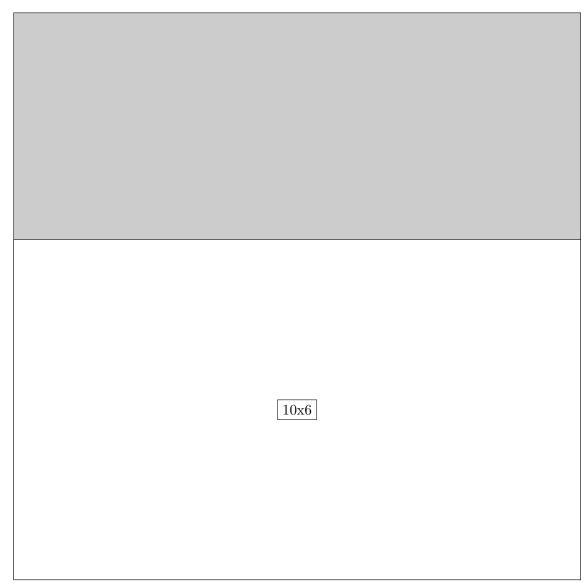
$$\begin{array}{l} w = 8 \ , \, h = \! 5 \ , \, x = \! 2 \ , \, y = \! 0 \ , \, v = \! 40 \\ w = \! 7 \ , \, h = \! 5 \ , \, x = \! 3 \ , \, y = \! 5 \ , \, v = \! 35 \end{array}$$



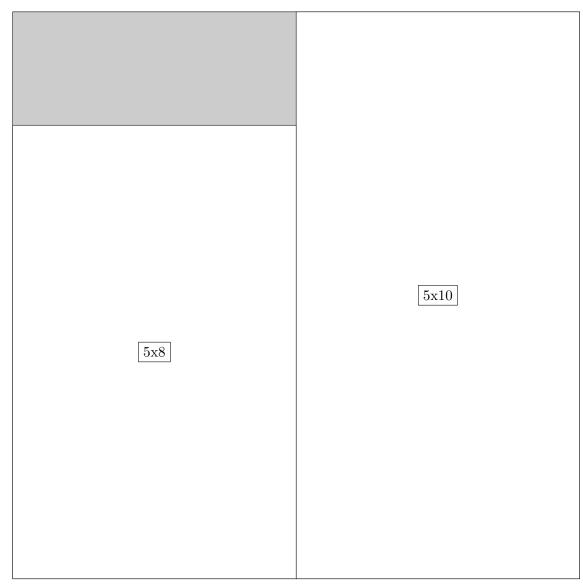


w = 10, h = 6, x = 0, y = 0, v = 60

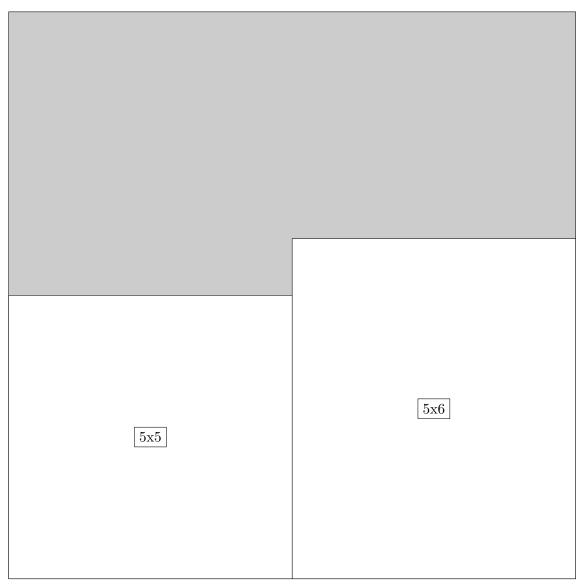


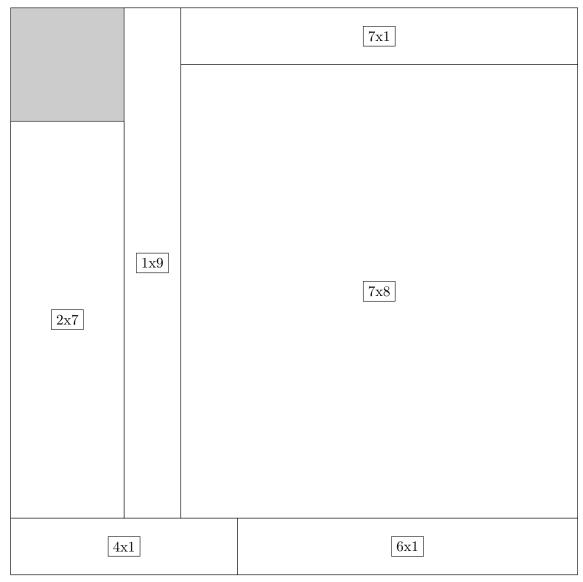


w = 10, h = 6, x = 0, y = 0, v = 60



w =5, h =10, x =5, y =0, v =50 w =5, h =8, x =0, y =0, v =40





$$w = 6$$
, $h = 1$, $x = 4$, $y = 0$, $v = 6$

$$\mathbf{w}$$
 =4 , h =1 , x =0 , y =0 , v =4

$$\mathbf{w}$$
 =7 , h =8 , x =3 , y =1 , v =
56

$$\mathbf{w}$$
 =7 , h =1 , x =3 , y =9 , v =7

$$\mathbf{w}$$
 =1 , h =9 , x =2 , y =1 , v =9

$$\mathbf{w}$$
 =2 , h =7 , x =0 , y =1 , v =14