${\bf ClassName:}~{\bf Class\_01.2bp\text{-}30}$ 

BinSize:  $\underline{10} \times \underline{10}$ ReduceSize:  $\underline{10} \times \underline{10}$ 

TypeNum:  $\underline{58}$ Num:  $\underline{80}$ OutS:  $\underline{2500}$ InS:  $\underline{2274}$ Rate:  $\underline{0.910}$ UB:  $\underline{25}$ LB0:  $\underline{25}$ 

LB: **25** LBWithCut: **25** NodeCut: **0** 

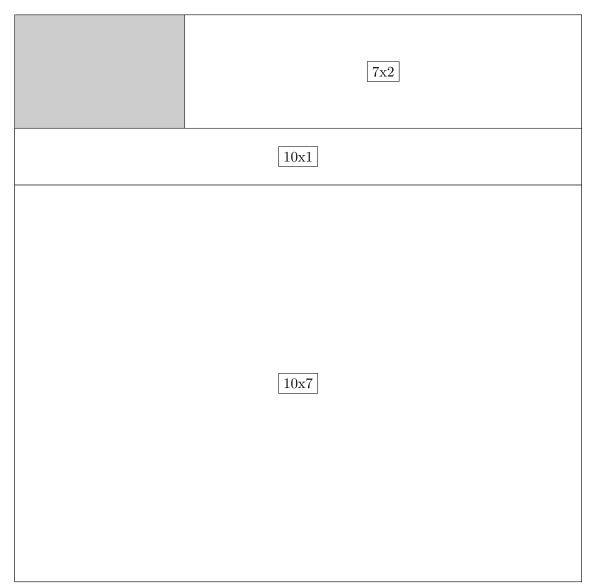
ExtendedNodeCnt:  $\underline{\mathbf{1}}$ 

GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{25}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

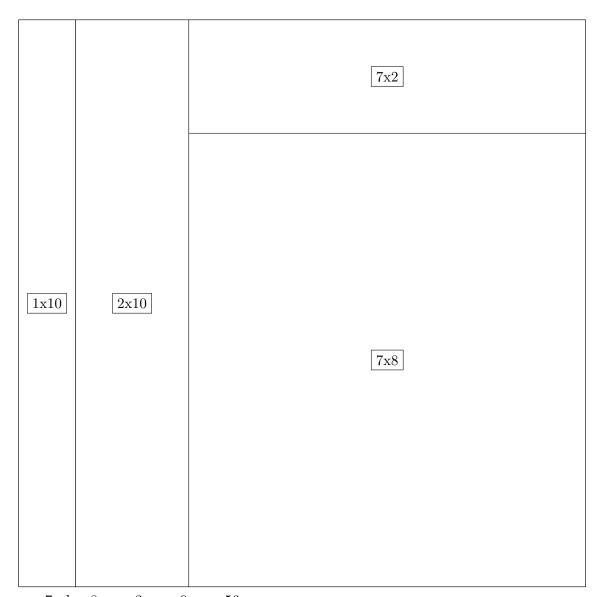
isOpt: **true** 

TimeOnInitSolution:  $\underline{600.000 \text{ s}}$ 

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.063 sTotalTime: 600.313 s



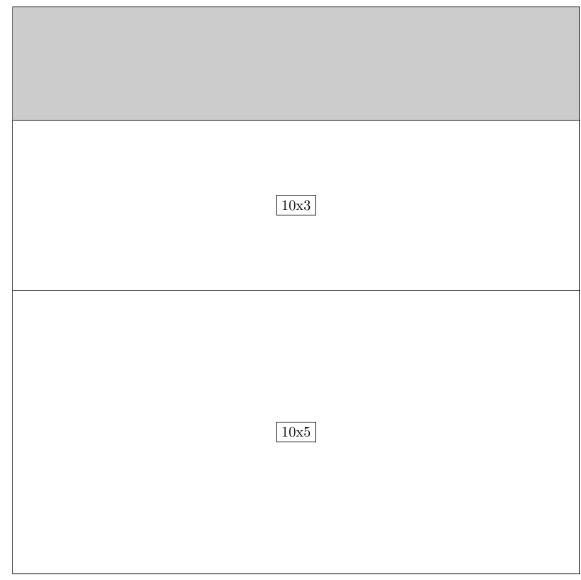
 $\begin{array}{l} w = & 10 \ , \ h = & 7 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 70 \\ w = & 10 \ , \ h = & 1 \ , \ x = & 0 \ , \ y = & 7 \ , \ v = & 10 \\ w = & 7 \ , \ h = & 2 \ , \ x = & 3 \ , \ y = & 8 \ , \ v = & 14 \end{array}$ 

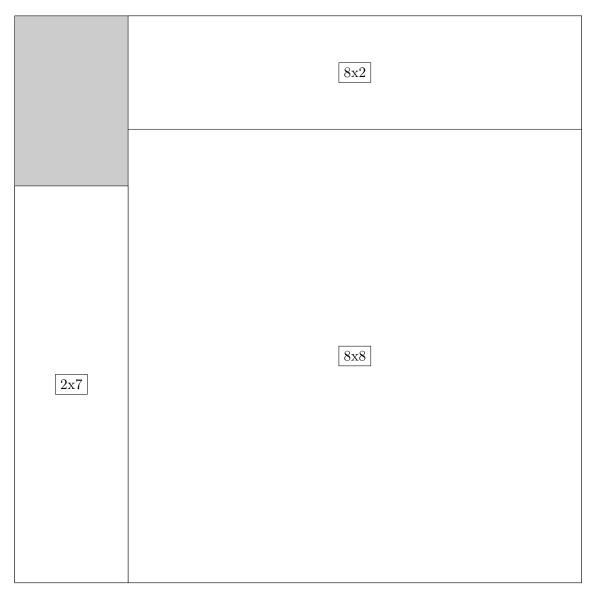


 $\begin{array}{l} w = 7 \ , \ h = 8 \ , \ x = 3 \ , \ y = 0 \ , \ v = 56 \\ w = 7 \ , \ h = 2 \ , \ x = 3 \ , \ y = 8 \ , \ v = 14 \end{array}$ 

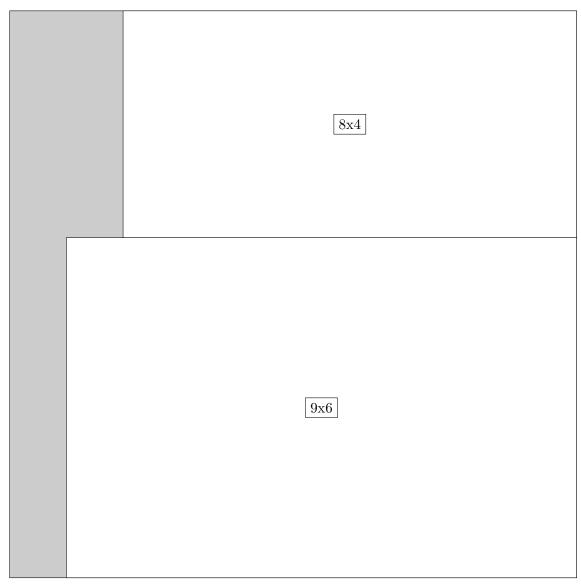
w = 2, h = 10, x = 1, y = 0, v = 20

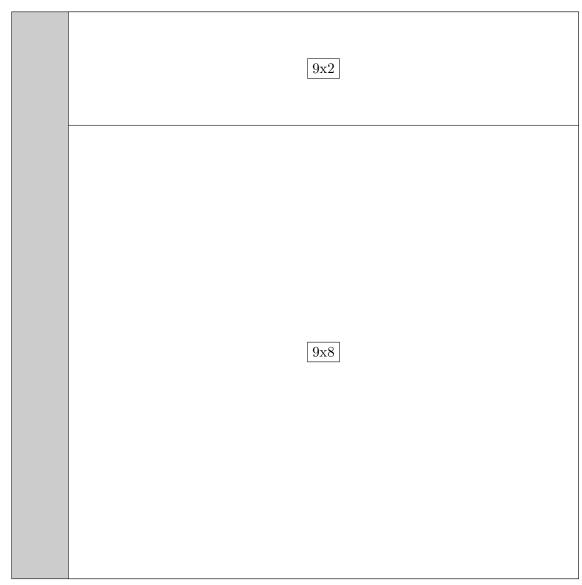
w = 1, h = 10, x = 0, y = 0, v = 10





 $\begin{array}{l} w = 8 \;, \; h = 8 \;, \; x = 2 \;, \; y = 0 \;, \; v = 64 \\ w = 8 \;, \; h = 2 \;, \; x = 2 \;, \; y = 8 \;, \; v = 16 \\ w = 2 \;, \; h = 7 \;, \; x = 0 \;, \; y = 0 \;, \; v = 14 \end{array}$ 

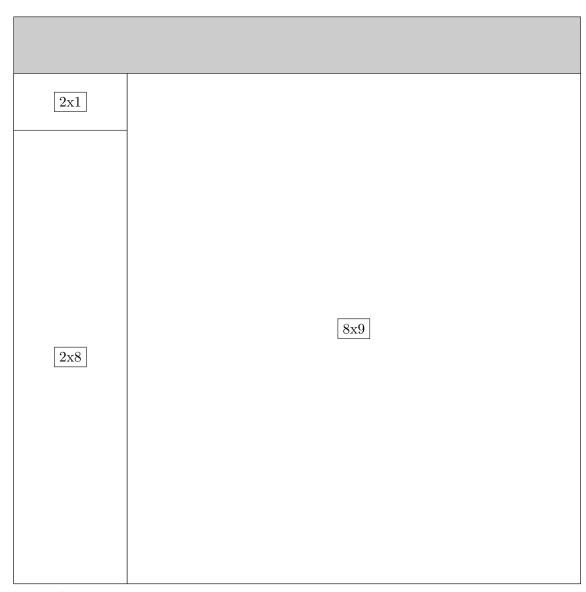




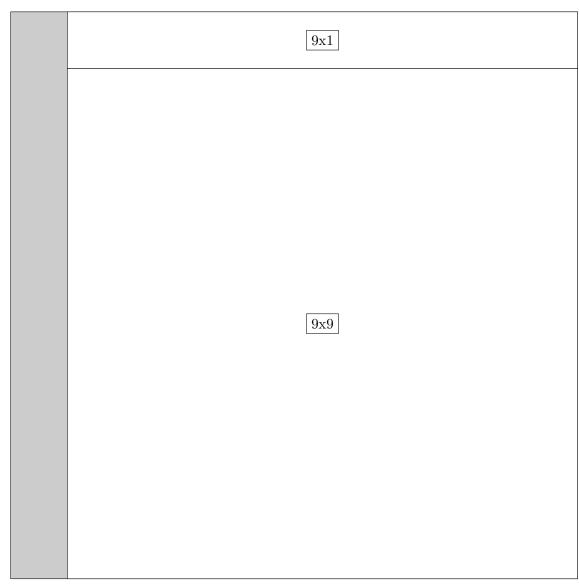
$$\begin{array}{c} w = 9 \ , \ h = 8 \ , \ x = 1 \ , \ y = 0 \ , \ v = 72 \\ w = 9 \ , \ h = 2 \ , \ x = 1 \ , \ y = 8 \ , \ v = 18 \end{array}$$

|     |     | 9x5 |
|-----|-----|-----|
| 1x5 | 4x5 | 5x5 |

 $\begin{array}{c} w = 5 \ , \ h = 5 \ , \ x = 5 \ , \ y = 0 \ , \ v = 25 \\ w = 4 \ , \ h = 5 \ , \ x = 1 \ , \ y = 0 \ , \ v = 20 \\ w = 1 \ , \ h = 5 \ , \ x = 0 \ , \ y = 0 \ , \ v = 5 \\ w = 9 \ , \ h = 5 \ , \ x = 1 \ , \ y = 5 \ , \ v = 45 \end{array}$ 

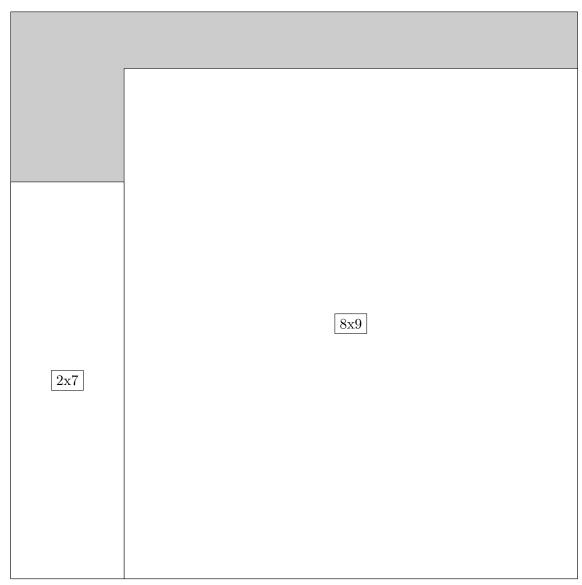


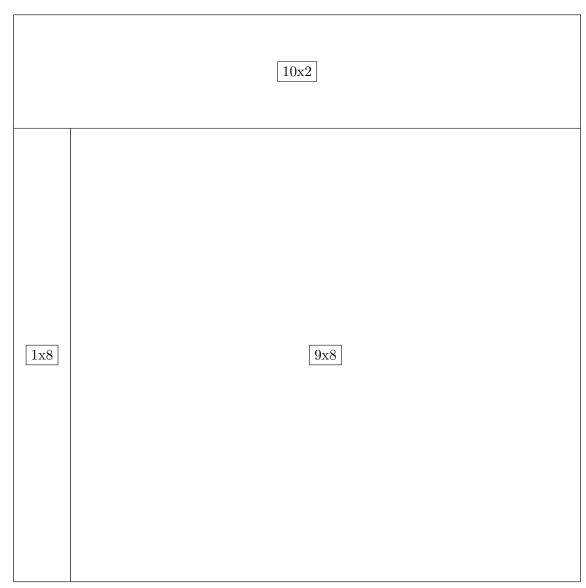
$$\begin{array}{l} w = 8 \ , \ h = 9 \ , \ x = 2 \ , \ y = 0 \ , \ v = 72 \\ w = 2 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 16 \\ w = 2 \ , \ h = 1 \ , \ x = 0 \ , \ y = 8 \ , \ v = 2 \end{array}$$



|     | 5x2 | 5x2 |
|-----|-----|-----|
| 1x8 |     | 9x8 |

$$\begin{array}{l} w = 9 \ , \ h = 8 \ , \ x = 1 \ , \ y = 0 \ , \ v = 72 \\ w = 1 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 8 \\ w = 5 \ , \ h = 2 \ , \ x = 5 \ , \ y = 8 \ , \ v = 10 \\ w = 5 \ , \ h = 2 \ , \ x = 0 \ , \ y = 8 \ , \ v = 10 \end{array}$$

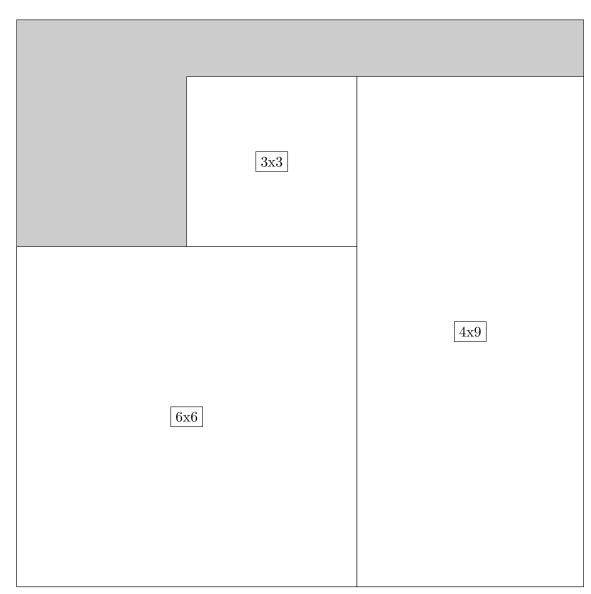




$$\begin{array}{l} w = 9 \ , \ h = 8 \ , \ x = 1 \ , \ y = 0 \ , \ v = 72 \\ w = 1 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 8 \\ w = 10 \ , \ h = 2 \ , \ x = 0 \ , \ y = 8 \ , \ v = 20 \end{array}$$

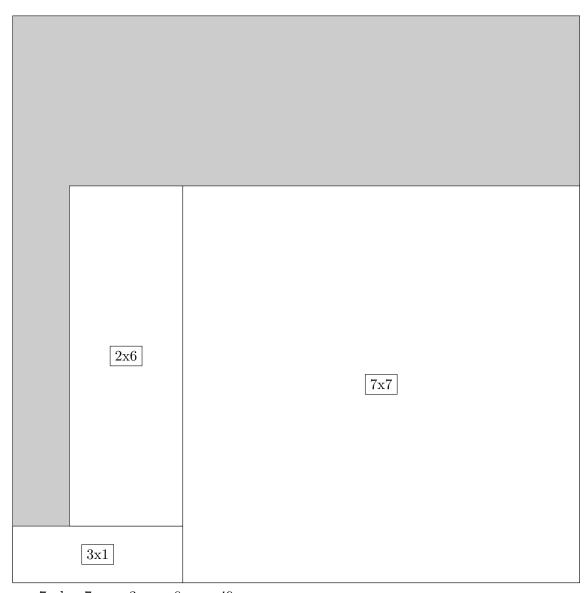
| 3x4 | $7\mathrm{x}4$ |
|-----|----------------|
| 4x6 | 6x6            |

$$\begin{array}{l} w=6\ ,\, h=6\ ,\, x=4\ ,\, y=0\ ,\, v=36\\ w=4\ ,\, h=6\ ,\, x=0\ ,\, y=0\ ,\, v=24\\ w=7\ ,\, h=4\ ,\, x=3\ ,\, y=6\ ,\, v=28\\ w=3\ ,\, h=4\ ,\, x=0\ ,\, y=6\ ,\, v=12 \end{array}$$

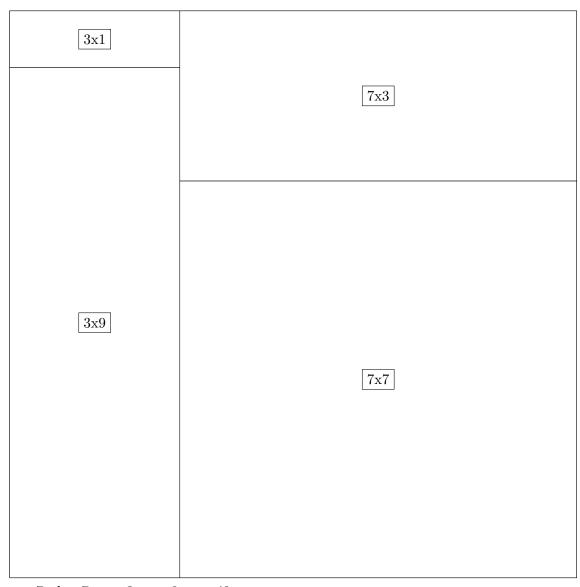


$$w = 4$$
,  $h = 9$ ,  $x = 6$ ,  $y = 0$ ,  $v = 36$ 

$$w = 3$$
,  $h = 3$ ,  $x = 3$ ,  $y = 6$ ,  $v = 9$ 



$$\begin{array}{l} w = 7 \;, \; h = 7 \;, \; x = 3 \;, \; y = 0 \;, \; v = 49 \\ w = 3 \;, \; h = 1 \;, \; x = 0 \;, \; y = 0 \;, \; v = 3 \\ w = 2 \;, \; h = 6 \;, \; x = 1 \;, \; y = 1 \;, \; v = 12 \end{array}$$

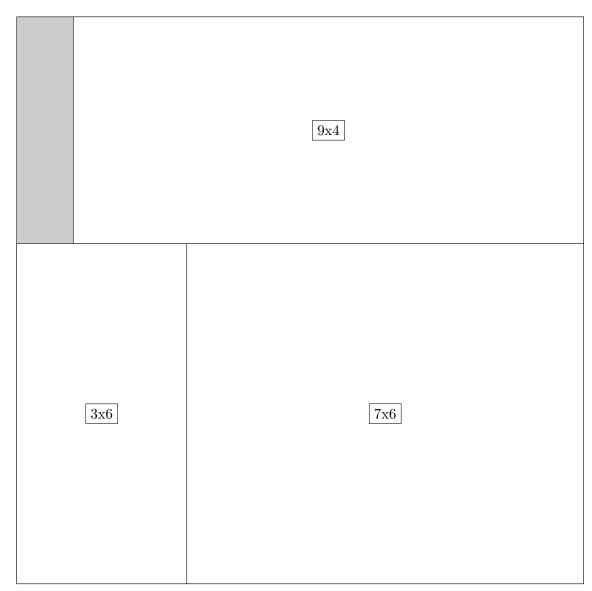


$$\mathbf{w}$$
 =7 , h =7 , x =3 , y =0 , v =49

$$\mathbf{w}$$
 =7 , h =3 , x =3 , y =7 , v =21

$$w = 3$$
 ,  $h = 9$  ,  $x = 0$  ,  $y = 0$  ,  $v = 27$ 

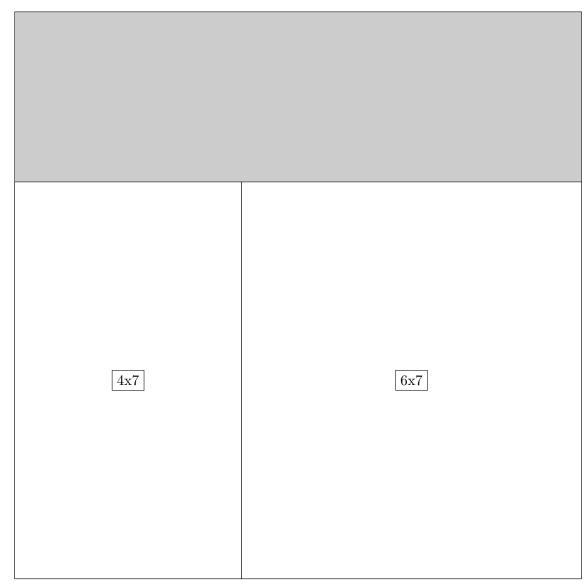
$$\mathbf{w}$$
 =3 , h =1 , x =0 , y =9 , v =3



$$\begin{array}{l} w = 7 \ , \ h = 6 \ , \ x = 3 \ , \ y = 0 \ , \ v = 42 \\ w = 3 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 18 \\ w = 9 \ , \ h = 4 \ , \ x = 1 \ , \ y = 6 \ , \ v = 36 \end{array}$$

|     | 5x4 |
|-----|-----|
| 5x9 | 5x6 |
|     |     |

 $\begin{array}{l} w = 5 \ , \ h = 6 \ , \ x = 5 \ , \ y = 0 \ , \ v = 30 \\ w = 5 \ , \ h = 4 \ , \ x = 5 \ , \ y = 6 \ , \ v = 20 \\ w = 5 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 45 \end{array}$ 



w =6, h =7, x =4, y =0, v =42 w =4, h =7, x =0, y =0, v =28

|     | 3x1 | $\fbox{6x3}$   |
|-----|-----|----------------|
|     |     |                |
|     |     |                |
| 1x9 |     |                |
| TAU | 3x8 | $6\mathrm{x}7$ |
|     |     |                |
|     |     |                |
|     |     |                |

 $\begin{array}{l} w=6\ ,\, h=7\ ,\, x=4\ ,\, y=0\ ,\, v=42\\ w=6\ ,\, h=3\ ,\, x=4\ ,\, y=7\ ,\, v=18\\ w=3\ ,\, h=8\ ,\, x=1\ ,\, y=0\ ,\, v=24\\ w=3\ ,\, h=1\ ,\, x=1\ ,\, y=8\ ,\, v=3\\ w=1\ ,\, h=9\ ,\, x=0\ ,\, y=0\ ,\, v=9 \end{array}$ 

| [3x3] | 1x3 | [5x3] |  |
|-------|-----|-------|--|
| 4x7   |     | 6x7   |  |
|       |     |       |  |

w = 6, h = 7, x = 4, y = 0, v = 42

w =5 , h =3 , x =5 , y =7 , v = 15

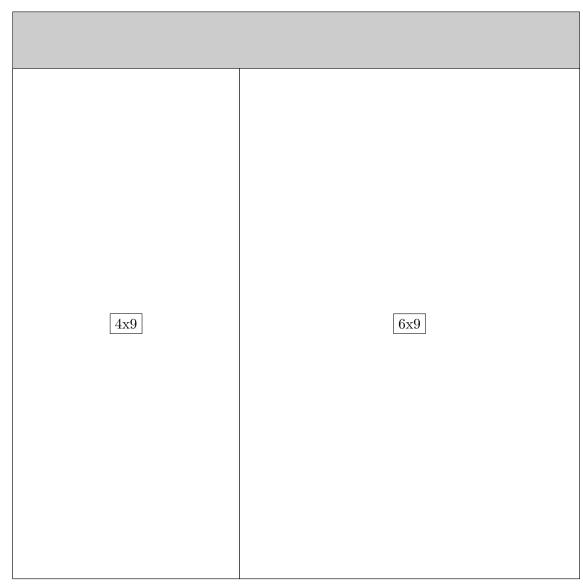
w = 1, h = 3, x = 4, y = 7, v = 3

 $\mathbf{w}=\!\!4$  ,  $\mathbf{h}=\!\!7$  ,  $\mathbf{x}=\!\!0$  ,  $\mathbf{y}=\!\!0$  ,  $\mathbf{v}=\!\!28$ 

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

|    | 8x3 |  |     |
|----|-----|--|-----|
| 42 | x7  |  | 6x7 |

 $\begin{array}{l} w=6 \ , \ h=7 \ , \ x=4 \ , \ y=0 \ , \ v=42 \\ w=4 \ , \ h=7 \ , \ x=0 \ , \ y=0 \ , \ v=28 \\ w=8 \ , \ h=3 \ , \ x=2 \ , \ y=7 \ , \ v=24 \end{array}$ 



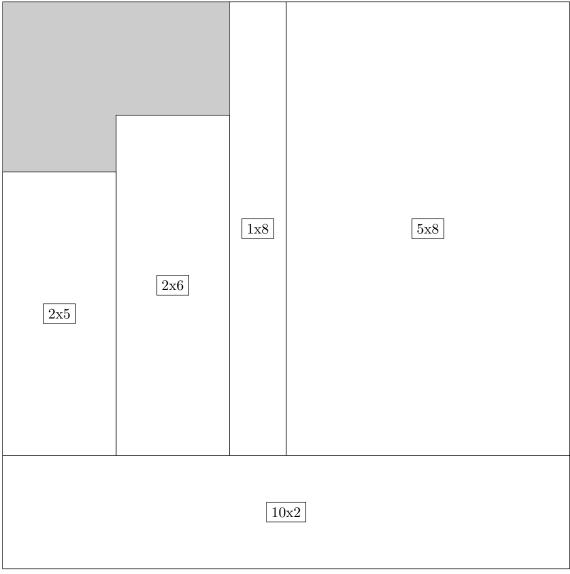
w =6, h =9, x =4, y =0, v =54 w =4, h =9, x =0, y =0, v =36

|     | 6x1 |
|-----|-----|
| 4x1 |     |
|     |     |
| 4x8 | 6x9 |
|     |     |

 $\begin{array}{l} w = 6 \ , \ h = 9 \ , \ x = 4 \ , \ y = 0 \ , \ v = 54 \\ w = 6 \ , \ h = 1 \ , \ x = 4 \ , \ y = 9 \ , \ v = 6 \end{array}$ 

w = 4, h = 8, x = 0, y = 0, v = 32

 $\mathbf{w}=\!\!4$  ,  $\mathbf{h}=\!\!1$  ,  $\mathbf{x}=\!\!0$  ,  $\mathbf{y}=\!\!8$  ,  $\mathbf{v}=\!\!4$ 



$$\mathbf{w}$$
 =10 , h =2 , x =0 , y =0 , v =20

$$\mathbf{w}$$
 =5 , h =8 , x =5 , y =2 , v =40

$$\mathbf{w}$$
 =1 , h =8 , x =4 , y =2 , v =8

$$\mathbf{w}$$
 =2 , h =6 , x =2 , y =2 , v =12

$$\mathbf{w}$$
 =2 , h =5 , x =0 , y =2 , v =10