${\bf ClassName:}~{\bf Class\_01.2bp\text{-}10}$ 

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

TypeNum: <u>32</u> Num: <u>40</u> OutS: <u>1000</u> InS: <u>895</u> Rate: <u>0.895</u> UB: <u>10</u> LB0: <u>10</u> LB: <u>10</u>

LBWithCut:  $\underline{\mathbf{10}}$ NodeCut:  $\underline{\mathbf{0}}$ 

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

GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{10}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

isOpt:  $\underline{\mathbf{true}}$ 

 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.010 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.063 \ s} \\ {\rm TotalTime:} \ \underline{0.135 \ s} \end{array}$ 

2x1	5x1	
	8x9	2x10

$$\mathbf{w}$$
 =8 , h =9 , x =0 , y =0 , v =72

$$\mathbf{w}$$
 =2 , h =10 , x =8 , y =0 , v =20

$$\mathbf{w}$$
 =5 , h =1 , x =3 , y =9 , v =5

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

1x1	9x1	
		3x1
	7x9	[3x8]

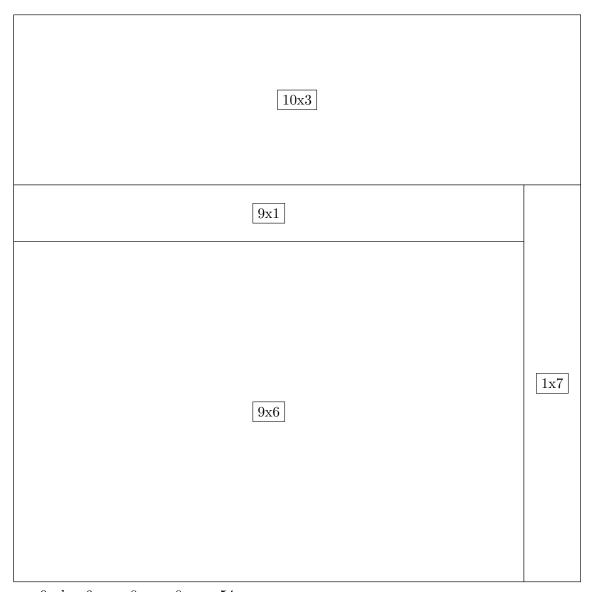
$$\mathbf{w}$$
 =7 , h =9 , x =0 , y =0 , v =63

$$\mathbf{w}$$
 =3 , h =8 , x =7 , y =0 , v =  
24

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

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

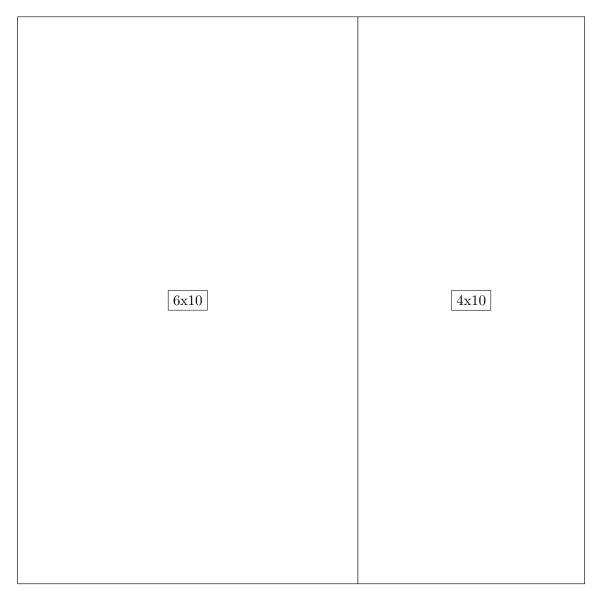
$$w = 1$$
,  $h = 1$ ,  $x = 0$ ,  $y = 9$ ,  $v = 1$ 



$$\begin{array}{l} w = 9 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 54 \\ w = 10 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 30 \\ w = 9 \ , \ h = 1 \ , \ x = 0 \ , \ y = 6 \ , \ v = 9 \\ w = 1 \ , \ h = 7 \ , \ x = 9 \ , \ y = 0 \ , \ v = 7 \end{array}$$

3x4		[7x4]	
	8x6		2x4
			2x2

$$\begin{array}{l} w=2\;,\; h=2\;,\; x=8\;,\; y=0\;,\; v=4\\ w=8\;,\; h=6\;,\; x=0\;,\; y=0\;,\; v=48\\ w=7\;,\; h=4\;,\; x=3\;,\; y=6\;,\; v=28\\ w=3\;,\; h=4\;,\; x=0\;,\; y=6\;,\; v=12\\ w=2\;,\; h=4\;,\; x=8\;,\; y=2\;,\; v=8 \end{array}$$



2x2 2x2	$\boxed{4\mathrm{x}4}$	1x4	1x3
4x8	5x6		1x7

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

$$\mathbf{w}$$
 =5 , h =6 , x =4 , y =0 , v =30

$$\mathbf{w}=\!\!4$$
 ,  $\mathbf{h}=\!\!4$  ,  $\mathbf{x}=\!\!4$  ,  $\mathbf{y}=\!\!6$  ,  $\mathbf{v}=\!\!16$ 

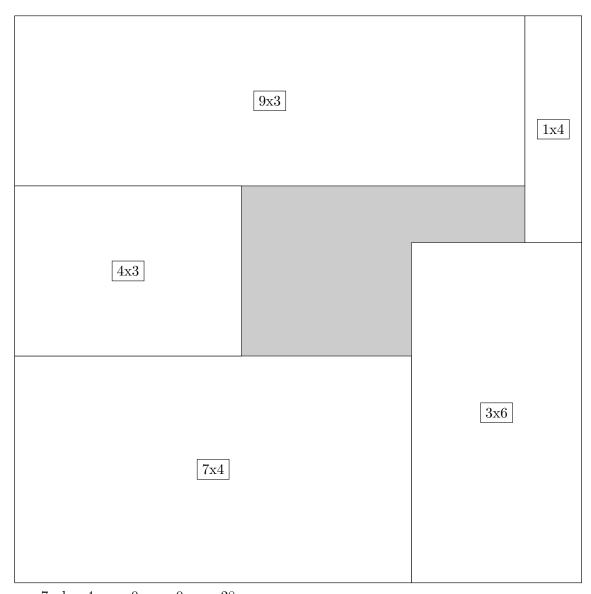
$$\mathbf{w}=\!1$$
 ,  $\mathbf{h}=\!7$  ,  $\mathbf{x}=\!9$  ,  $\mathbf{y}=\!0$  ,  $\mathbf{v}=\!7$ 

$$\mathbf{w}=2$$
 ,  $\mathbf{h}=2$  ,  $\mathbf{x}=0$  ,  $\mathbf{y}=8$  ,  $\mathbf{v}=\!4$ 

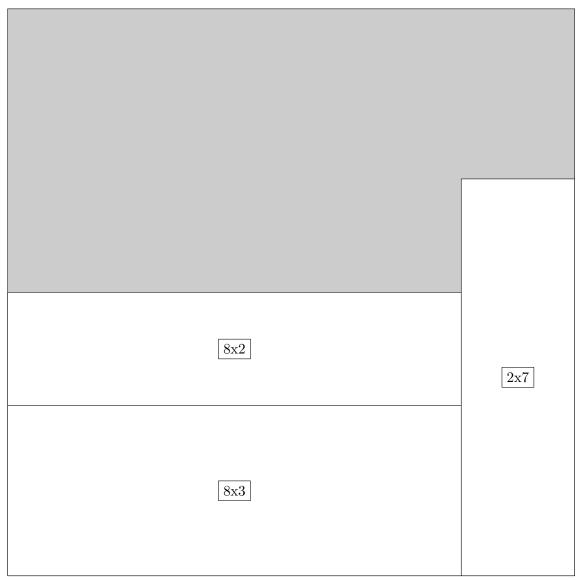
$$w = 2$$
,  $h = 2$ ,  $x = 2$ ,  $y = 8$ ,  $v = 4$ 

$$\mathbf{w}=\!\!1$$
 ,  $\mathbf{h}=\!\!4$  ,  $\mathbf{x}=\!\!8$  ,  $\mathbf{y}=\!\!6$  ,  $\mathbf{v}=\!\!4$ 

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



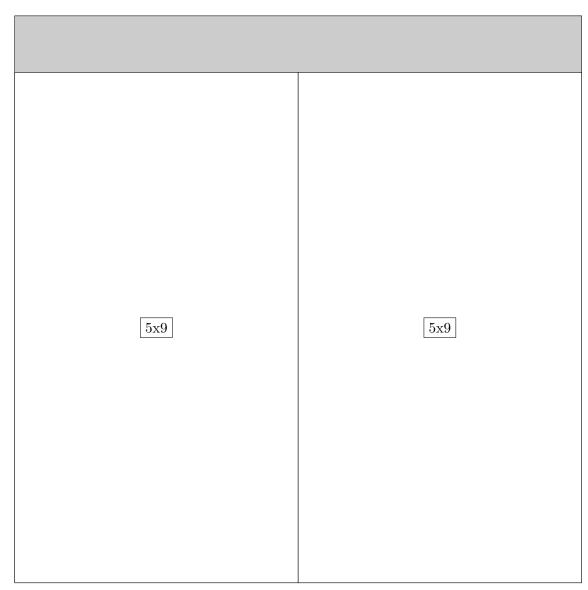
$$\begin{array}{l} w=7\ ,\ h=4\ ,\ x=0\ ,\ y=0\ ,\ v=28\\ w=9\ ,\ h=3\ ,\ x=0\ ,\ y=7\ ,\ v=27\\ w=3\ ,\ h=6\ ,\ x=7\ ,\ y=0\ ,\ v=18\\ w=4\ ,\ h=3\ ,\ x=0\ ,\ y=4\ ,\ v=12\\ w=1\ ,\ h=4\ ,\ x=9\ ,\ y=6\ ,\ v=4 \end{array}$$



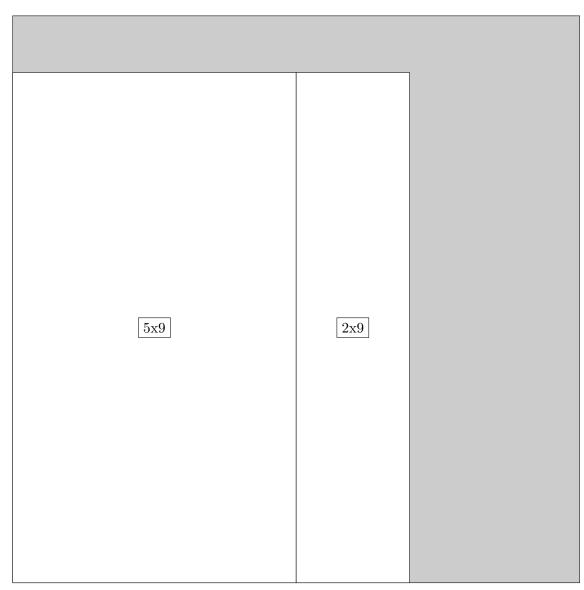
$$\le =8$$
 , h =3 , x =0 , y =0 , v =  
24

$$\le =8$$
 , h =2 , x =0 , y =3 , v =  
16

$$\mathbf{w}$$
 =2 , h =7 , x =8 , y =0 , v =14



w =5, h =9, x =0, y =0, v =45 w =5, h =9, x =5, y =0, v =45



w =5, h =9, x =0, y =0, v =45 w =2, h =9, x =5, y =0, v =18