$ClassName: \ Class\_01.2bp-44$ 

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

TypeNum: <u>64</u>
Num: <u>100</u>
OutS: <u>3200</u>
InS: <u>3015</u>
Rate: <u>0.942</u>
UB: <u>32</u>
LB0: <u>32</u>
LB: <u>32</u>

LBWithCut:  $\underline{32}$ NodeCut:  $\underline{0}$ 

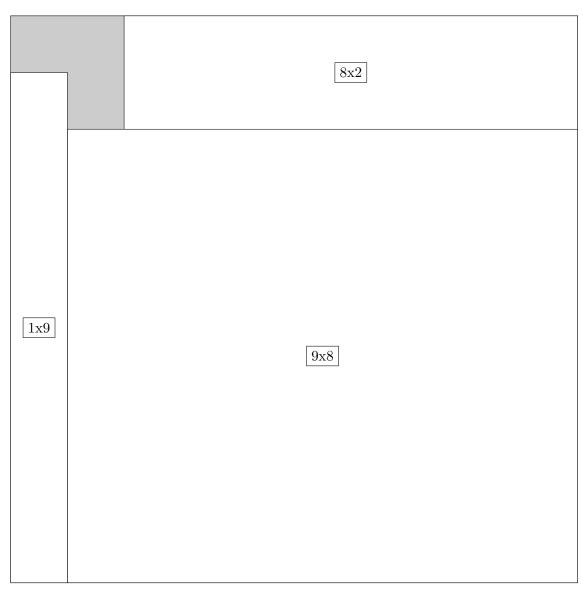
ExtendedNodeCnt:  $\underline{\mathbf{1}}$ 

GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{32}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

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

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

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 600.344 s



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

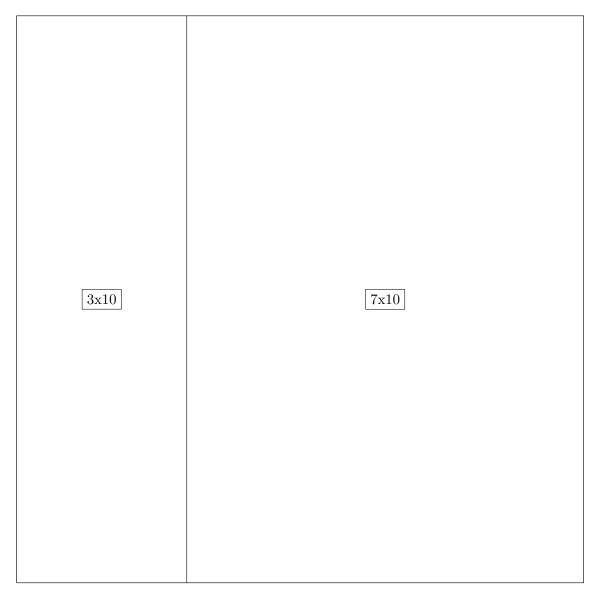


	10x1
2x1	8x1
	10x8

$$\begin{array}{l} w = \! 10 \; , \; h = \! 8 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 80 \\ w = \! 8 \; , \; h = \! 1 \; , \; x = \! 2 \; , \; y = \! 8 \; , \; v = \! 8 \\ w = \! 2 \; , \; h = \! 1 \; , \; x = \! 0 \; , \; y = \! 8 \; , \; v = \! 2 \\ w = \! 10 \; , \; h = \! 1 \; , \; x = \! 0 \; , \; y = \! 9 \; , \; v = \! 10 \end{array}$$

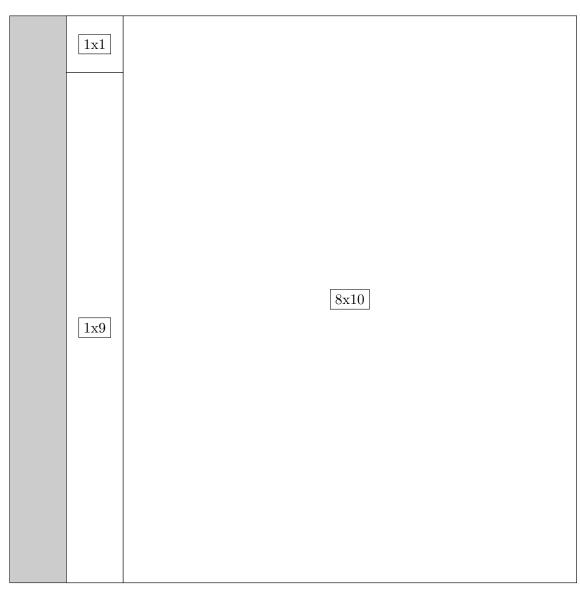
	$7\mathrm{x}4$
4x6	6x6

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



4x10	6x10

w =6, h =10, x =4, y =0, v =60 w =4, h =10, x =0, y =0, v =40



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

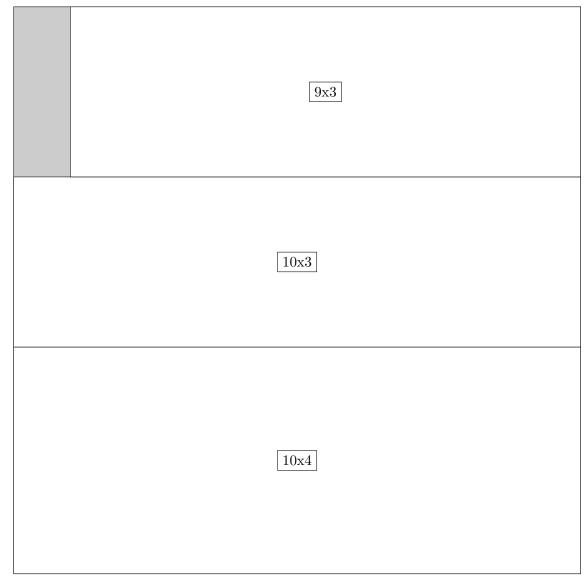
 $\mathbf{w}$  =1 , h =9 , x =1 , y =0 , v =9

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

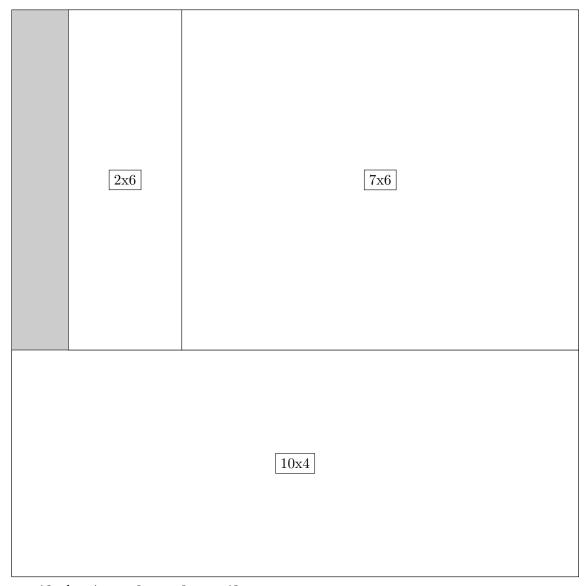
$5\mathrm{x}10$	$5\mathrm{x}10$



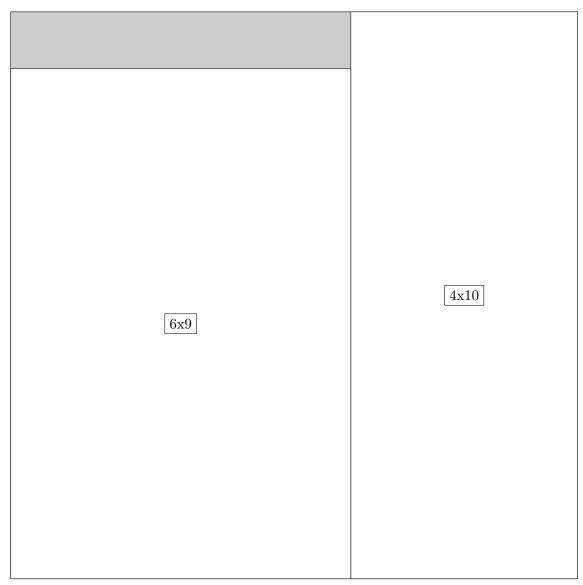
w = 10, h = 8, x = 0, y = 0, v = 80



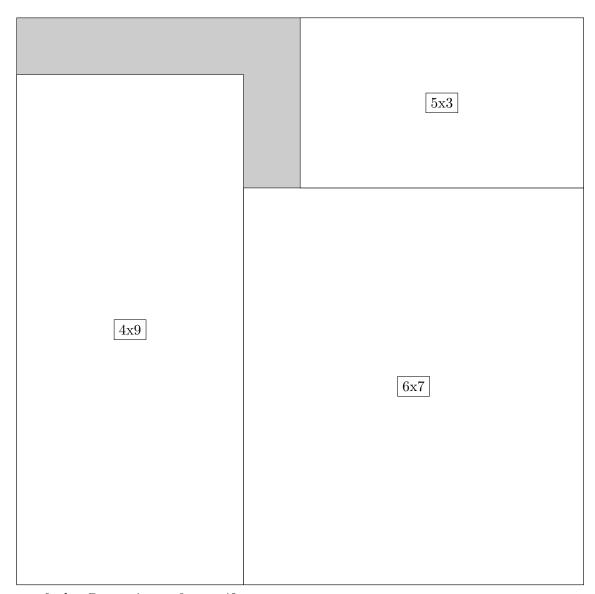
$$\begin{array}{l} w = & 10 \; , \; h = & 4 \; , \; x = & 0 \; , \; y = & 0 \; , \; v = & 40 \\ w = & 10 \; , \; h = & 3 \; , \; x = & 0 \; , \; y = & 4 \; , \; v = & 30 \\ w = & 9 \; , \; h = & 3 \; , \; x = & 1 \; , \; y = & 7 \; , \; v = & 27 \end{array}$$



 $\begin{array}{l} w = & 10 \ , \ h = & 4 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 40 \\ w = & 7 \ , \ h = & 6 \ , \ x = & 3 \ , \ y = & 4 \ , \ v = & 42 \\ w = & 2 \ , \ h = & 6 \ , \ x = & 1 \ , \ y = & 4 \ , \ v = & 12 \end{array}$ 



w =4, h =10, x =6, y =0, v =40 w =6, h =9, x =0, y =0, v =54



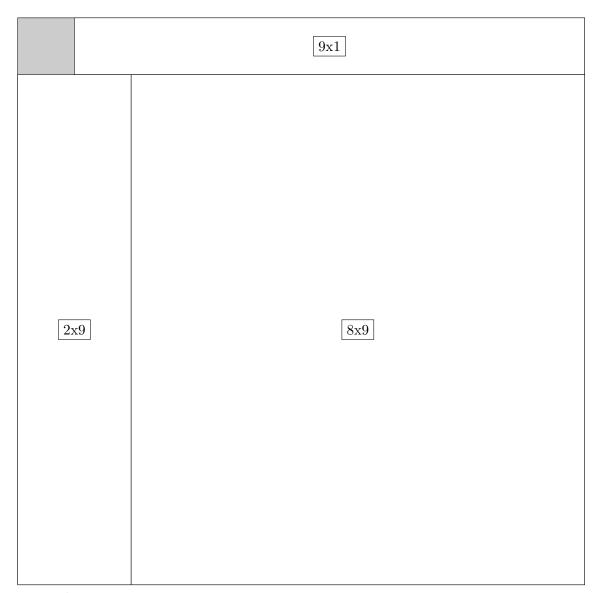
 $\begin{array}{l} w = 6 \ , \ h = 7 \ , \ x = 4 \ , \ y = 0 \ , \ v = 42 \\ w = 5 \ , \ h = 3 \ , \ x = 5 \ , \ y = 7 \ , \ v = 15 \\ w = 4 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 36 \end{array}$ 

7x1	
	2x10
8x9	

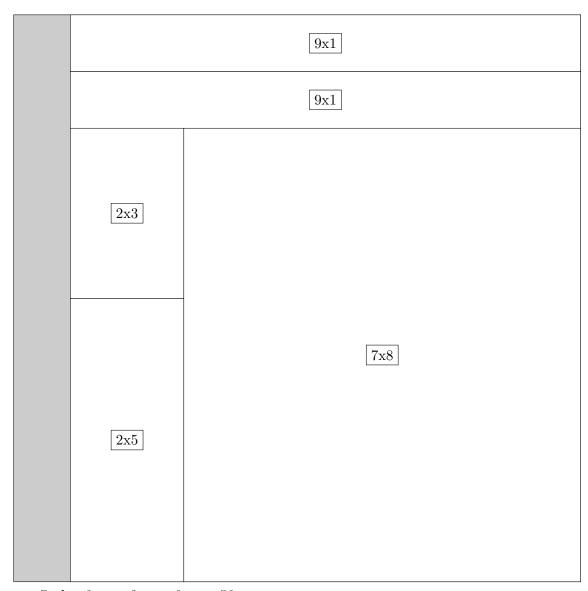
$$w=2$$
 ,  $h=10$  ,  $x=8$  ,  $y=0$  ,  $v=20$ 

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

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



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



$$\begin{array}{l} w = 7 \ , \ h = 8 \ , \ x = 3 \ , \ y = 0 \ , \ v = 56 \\ w = 2 \ , \ h = 5 \ , \ x = 1 \ , \ y = 0 \ , \ v = 10 \end{array}$$

$$\mathbf{w}$$
 =2 , h =3 , x =1 , y =5 , v =6

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

	3x2	3x2
4x9	6:	x8

$$\mathbf{w}$$
 =6 , h =8 , x =4 , y =0 , v =48

$$\mathbf{w}$$
 =3 , h =2 , x =7 , y =8 , v =6

$$w = 3$$
,  $h = 2$ ,  $x = 4$ ,  $y = 8$ ,  $v = 6$ 

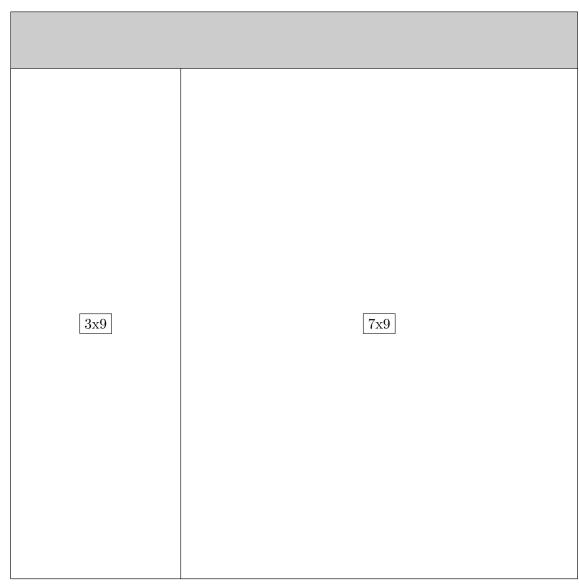
$$\mathbf{w}$$
 =4 , h =9 , x =0 , y =0 , v =36

3x3	7x3
3x7	7x7

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

 $\mathbf{w}$  =3 , h =7 , x =0 , y =0 , v = 21

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



w =7, h =9, x =3, y =0, v =63 w =3, h =9, x =0, y =0, v =27

[3x3]	[7x3]	
1x7 1x7	8x7	

 $\begin{array}{l} w=8\;,\; h=7\;,\; x=2\;,\; y=0\;,\; v=56\\ w=1\;,\; h=7\;,\; x=1\;,\; y=0\;,\; v=7\\ w=1\;,\; h=7\;,\; x=0\;,\; y=0\;,\; v=7\\ w=7\;,\; h=3\;,\; x=3\;,\; y=7\;,\; v=21\\ w=3\;,\; h=3\;,\; x=0\;,\; y=7\;,\; v=9 \end{array}$ 

5x2	
6x8	[4x10]

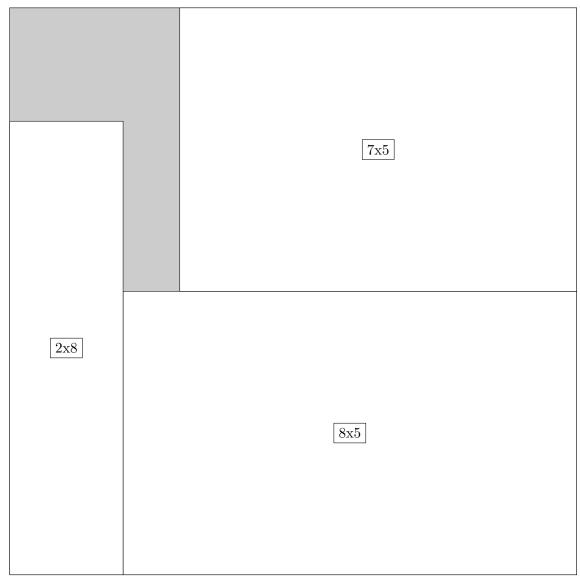
w = 4, h = 10, x = 6, y = 0, v = 40

 $\mathbf{w}$  =6 , h =8 , x =0 , y =0 , v =48

 $\mathbf{w}$  =5 , h =2 , x =1 , y =8 , v =10

1x2 3x2	
4x6	6x8

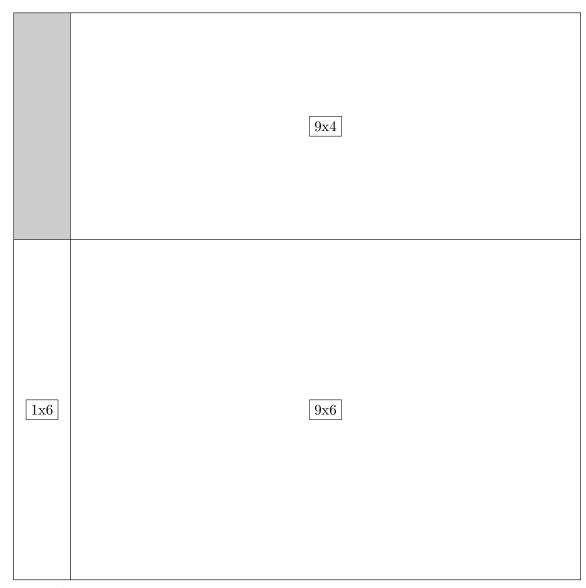
 $\begin{array}{l} w=6\ ,\, h=8\ ,\, x=4\ ,\, y=0\ ,\, v=48\\ w=4\ ,\, h=6\ ,\, x=0\ ,\, y=0\ ,\, v=24\\ w=3\ ,\, h=2\ ,\, x=1\ ,\, y=6\ ,\, v=6\\ w=1\ ,\, h=2\ ,\, x=0\ ,\, y=6\ ,\, v=2 \end{array}$ 



$$\mathbf{w}$$
 =8 ,  $\mathbf{h}$  =5 ,  $\mathbf{x}$  =2 ,  $\mathbf{y}$  =0 ,  $\mathbf{v}$  =40

$$\begin{array}{c} w = 7 \;, \; h = 5 \;, \; x = 3 \;, \; y = 5 \;, \; v = 35 \\ w = 2 \;, \; h = 8 \;, \; x = 0 \;, \; y = 0 \;, \; v = 16 \\ \end{array}$$

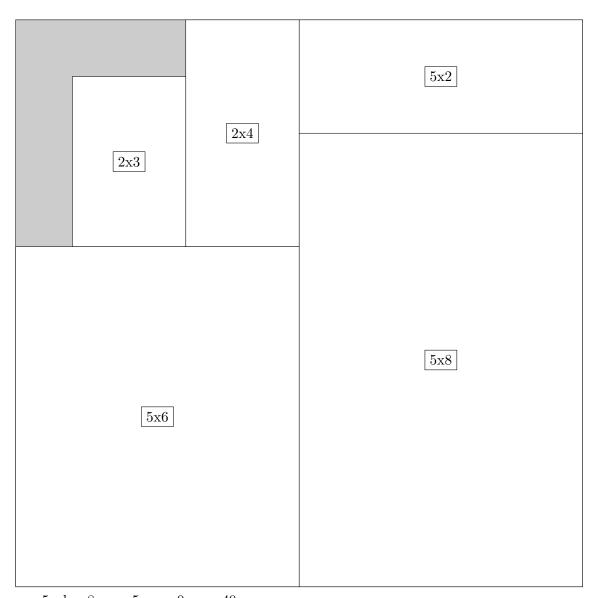
$$w = 2$$
,  $h = 8$ ,  $x = 0$ ,  $y = 0$ ,  $v = 16$ 



$$\begin{array}{l} w = 9 \ , \ h = 6 \ , \ x = 1 \ , \ y = 0 \ , \ v = 54 \\ w = 1 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 6 \\ w = 9 \ , \ h = 4 \ , \ x = 1 \ , \ y = 6 \ , \ v = 36 \end{array}$$

4x3	6x3
5x1	
5x6	5x7

$$\begin{array}{l} w=5 \ , \ h=7 \ , \ x=5 \ , \ y=0 \ , \ v=35 \\ w=5 \ , \ h=6 \ , \ x=0 \ , \ y=0 \ , \ v=30 \\ w=5 \ , \ h=1 \ , \ x=0 \ , \ y=6 \ , \ v=5 \\ w=6 \ , \ h=3 \ , \ x=4 \ , \ y=7 \ , \ v=18 \\ w=4 \ , \ h=3 \ , \ x=0 \ , \ y=7 \ , \ v=12 \end{array}$$



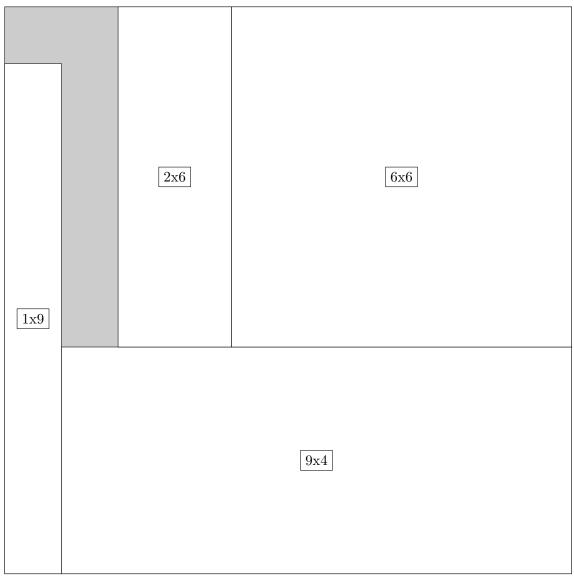
$$w = 5$$
,  $h = 8$ ,  $x = 5$ ,  $y = 0$ ,  $v = 40$ 

$$\begin{array}{l} w = 5 \ , \ h = 2 \ , \ x = 5 \ , \ y = 8 \ , \ v = 10 \\ w = 5 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 30 \end{array}$$

$$w = 2$$
,  $h = 4$ ,  $x = 3$ ,  $y = 6$ ,  $v = 8$ 

$$w = 2$$
,  $h = 4$ ,  $x = 3$ ,  $y = 6$ ,  $v = 8$ 

$$w = 2$$
,  $h = 3$ ,  $x = 1$ ,  $y = 6$ ,  $v = 6$ 



$$\begin{array}{l} w = 9 \ , \ h = 4 \ , \ x = 1 \ , \ y = 0 \ , \ v = 36 \\ w = 6 \ , \ h = 6 \ , \ x = 4 \ , \ y = 4 \ , \ v = 36 \\ w = 2 \ , \ h = 6 \ , \ x = 2 \ , \ y = 4 \ , \ v = 12 \\ w = 1 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 9 \end{array}$$

6x4	
7x6	3x10

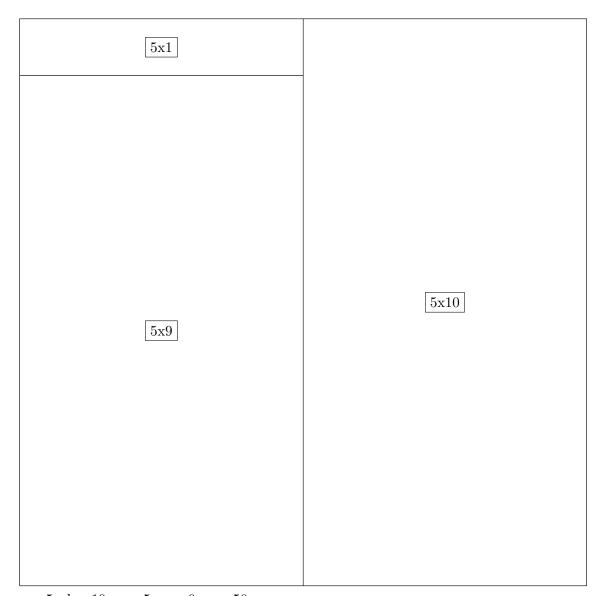
 $\le =3$  , h =10 , x =7 , y =0 , v =30

 $\mathbf{w}$  =7 , h =6 , x =0 , y =0 , v =42

 $\mathbf{w}$  =6 , h =4 , x =1 , y =6 , v =24

3x4	[7x4]	
5x6		5x6

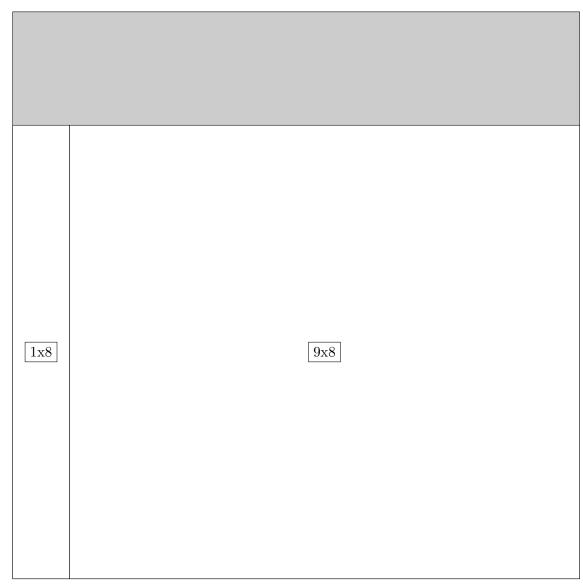
 $\begin{array}{l} w = 5 \ , \ h = 6 \ , \ x = 5 \ , \ y = 0 \ , \ v = 30 \\ w = 5 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 30 \\ w = 7 \ , \ h = 4 \ , \ x = 3 \ , \ y = 6 \ , \ v = 28 \\ w = 3 \ , \ h = 4 \ , \ x = 0 \ , \ y = 6 \ , \ v = 12 \end{array}$ 



 $\begin{array}{l} w = \! 5 \ , \ h = \! 10 \ , \ x = \! 5 \ , \ y = \! 0 \ , \ v = \! 50 \\ w = \! 5 \ , \ h = \! 9 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 45 \end{array}$ 

 $\mathbf{w}$  =5 , h =1 , x =0 , y =9 , v =5





w =9, h =8, x =1, y =0, v =72 w =1, h =8, x =0, y =0, v =8