$ClassName: \ Class_01.2bp-47$

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

TypeNum: <u>68</u> Num: <u>100</u> OutS: <u>3300</u> InS: <u>3121</u> Rate: <u>0.946</u> UB: <u>33</u> LB0: <u>33</u> LB: <u>33</u>

LBWithCut: $\underline{\mathbf{33}}$ NodeCut: $\underline{\mathbf{0}}$

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

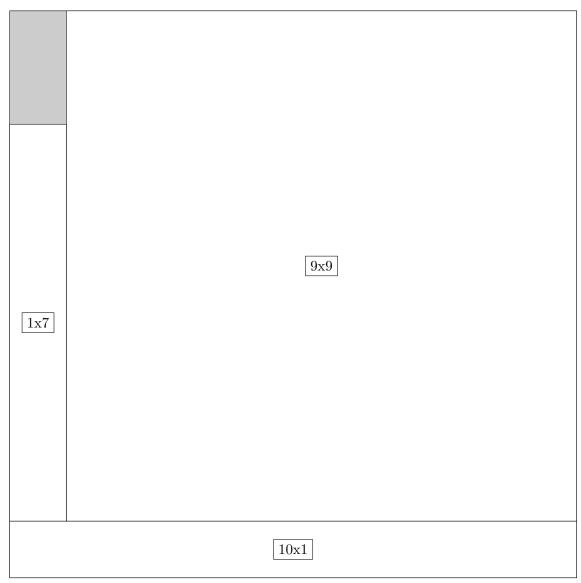
GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{33}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

isOpt: **true**

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

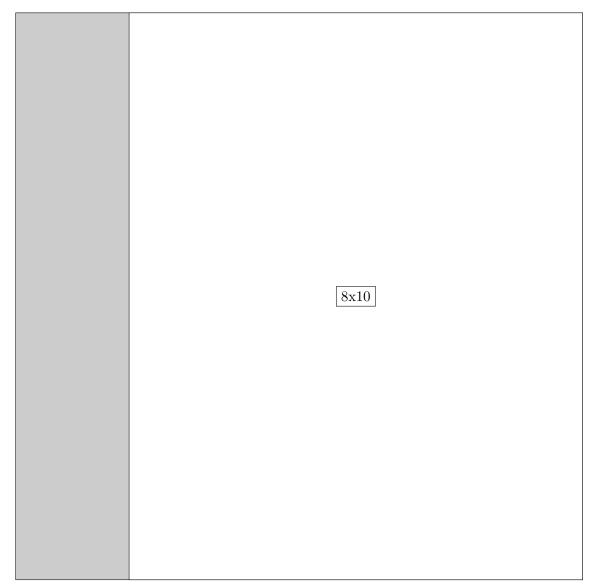
TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.062 sTotalTime: 600.390 s





$$\begin{array}{l} w = \! 10 \ , \ h = \! 1 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 10 \\ w = \! 9 \ , \ h = \! 9 \ , \ x = \! 1 \ , \ y = \! 1 \ , \ v = \! 81 \\ w = \! 1 \ , \ h = \! 7 \ , \ x = \! 0 \ , \ y = \! 1 \ , \ v = \! 7 \end{array}$$

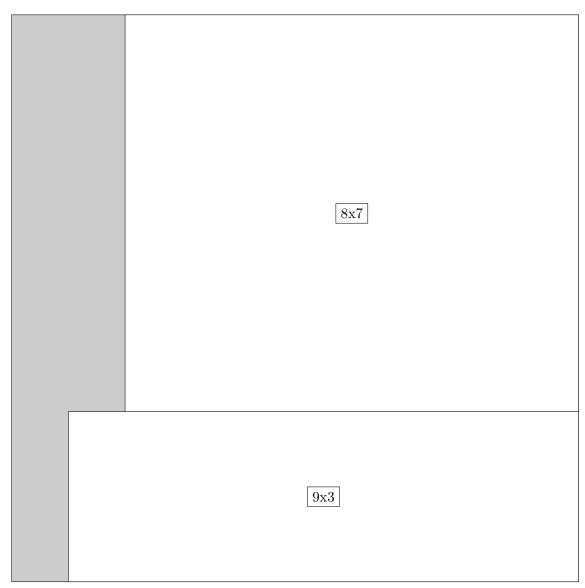




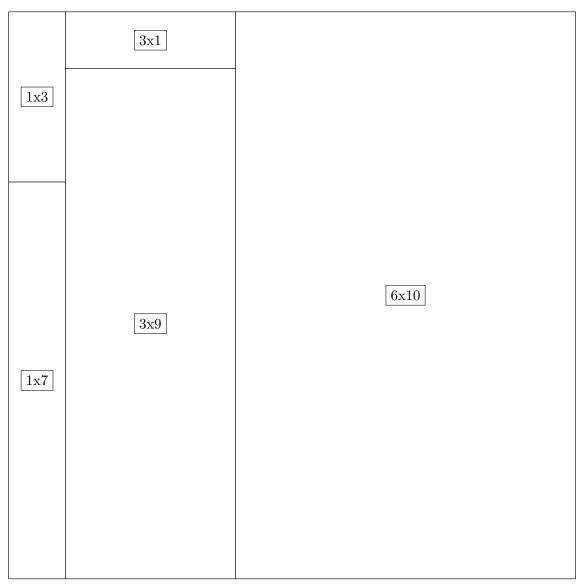
 \mathbf{w} =8 , h =10 , x =2 , y =0 , v =80

1x4		$9\mathrm{x}4$	
	4x6	6x6	

$$\begin{array}{l} w=6 \ , \ h=6 \ , \ x=4 \ , \ y=0 \ , \ v=36 \\ w=4 \ , \ h=6 \ , \ x=0 \ , \ y=0 \ , \ v=24 \\ w=9 \ , \ h=4 \ , \ x=1 \ , \ y=6 \ , \ v=36 \\ w=1 \ , \ h=4 \ , \ x=0 \ , \ y=6 \ , \ v=4 \end{array}$$



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



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

$$\begin{array}{l} w = 3 \ , \ h = 9 \ , \ x = 1 \ , \ y = 0 \ , \ v = 27 \\ w = 3 \ , \ h = 1 \ , \ x = 1 \ , \ y = 9 \ , \ v = 3 \end{array}$$

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

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

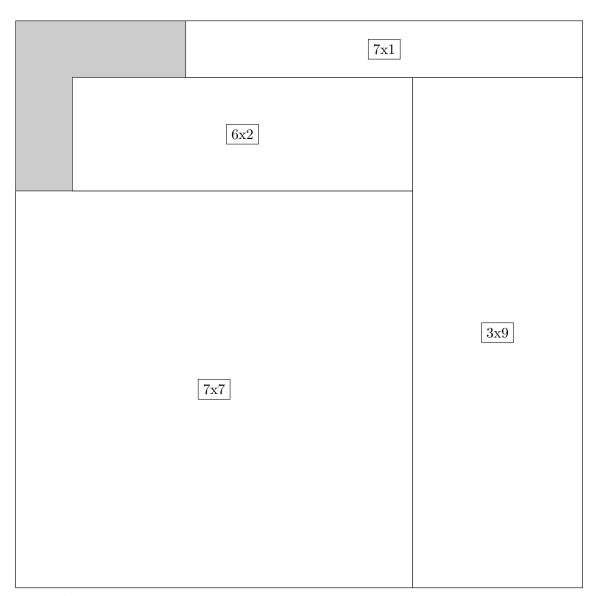
$$w = 1$$
, $h = 3$, $x = 0$, $y = 7$, $v = 3$



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

	6x4
4x9	6x6

 $\begin{array}{l} w=6 \ , \ h=6 \ , \ x=4 \ , \ y=0 \ , \ v=36 \\ w=6 \ , \ h=4 \ , \ x=4 \ , \ y=6 \ , \ v=24 \\ w=4 \ , \ h=9 \ , \ x=0 \ , \ y=0 \ , \ v=36 \end{array}$

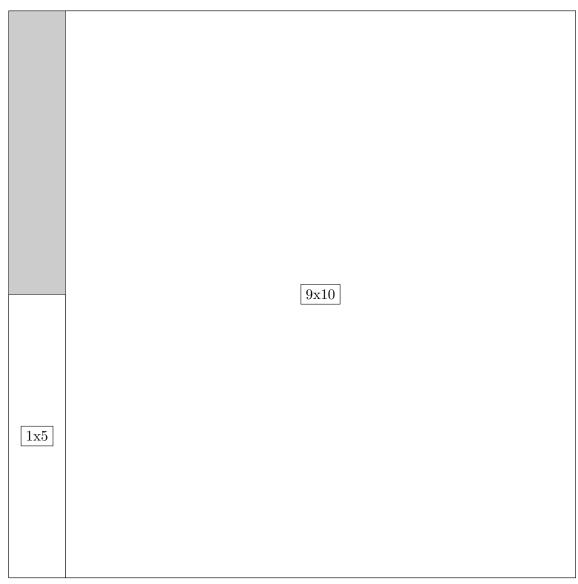


$$\le =3$$
 , h =9 , x =7 , y =0 , v =
27

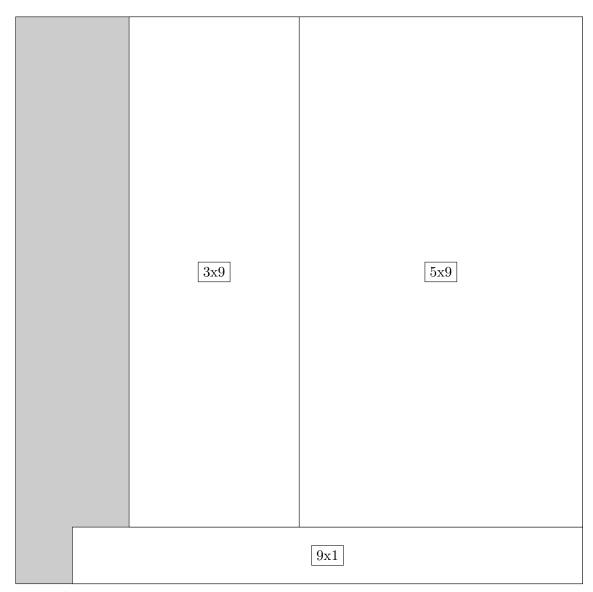
$$\mathbf{w}$$
 =7 , h =7 , x =0 , y =0 , v =49

$$\mathbf{w}$$
 =6 , h =2 , x =1 , y =7 , v =12

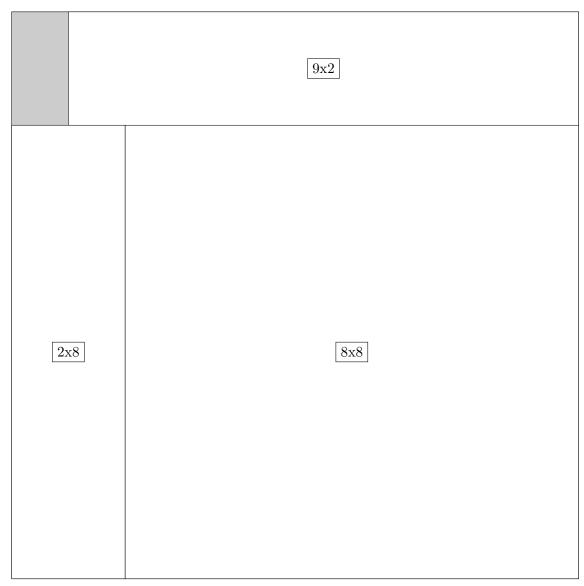
$$\mathbf{w}$$
 =7 , h =1 , x =3 , y =9 , v =7



w =9, h =10, x =1, y =0, v =90 w =1, h =5, x =0, y =0, v =5



 $\begin{array}{l} w = 9 \ , \ h = 1 \ , \ x = 1 \ , \ y = 0 \ , \ v = 9 \\ w = 5 \ , \ h = 9 \ , \ x = 5 \ , \ y = 1 \ , \ v = 45 \\ w = 3 \ , \ h = 9 \ , \ x = 2 \ , \ y = 1 \ , \ v = 27 \end{array}$



$$\begin{array}{l} w = 8 \ , \ h = 8 \ , \ x = 2 \ , \ y = 0 \ , \ v = 64 \\ w = 2 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 16 \\ w = 9 \ , \ h = 2 \ , \ x = 1 \ , \ y = 8 \ , \ v = 18 \end{array}$$

4x	3	[5x3]	
3x7		7x7	

 $\begin{array}{l} w=7\ ,\, h=7\ ,\, x=3\ ,\, y=0\ ,\, v=49\\ w=3\ ,\, h=7\ ,\, x=0\ ,\, y=0\ ,\, v=21\\ w=5\ ,\, h=3\ ,\, x=5\ ,\, y=7\ ,\, v=15\\ w=4\ ,\, h=3\ ,\, x=1\ ,\, y=7\ ,\, v=12 \end{array}$

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



1x5	6x6	
		3x10
	[7x2]	
	[7x2]	

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

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

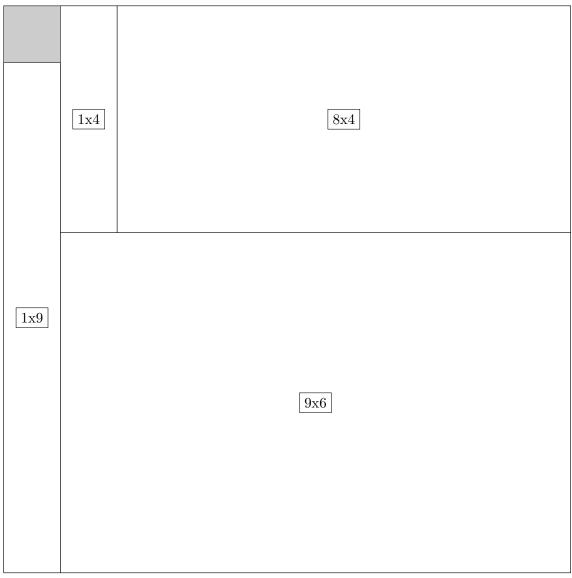
$$\mathbf{w}$$
 =7 , h =2 , x =0 , y =2 , v =14

$$\mathbf{w}$$
 =6 , h =6 , x =1 , y =4 , v =36

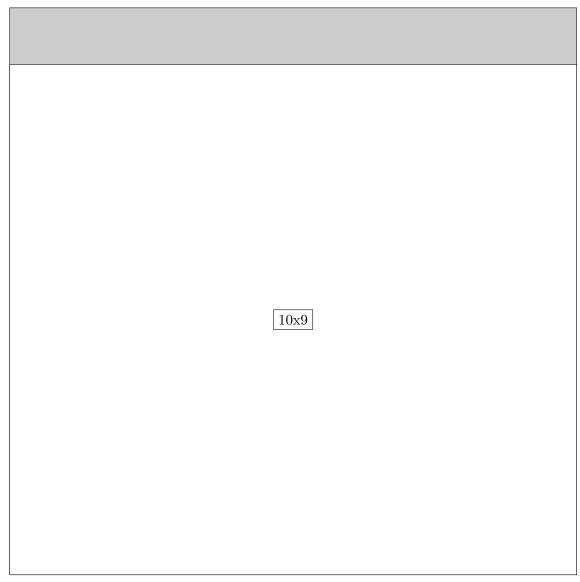
$$w = 1$$
, $h = 5$, $x = 0$, $y = 4$, $v = 5$



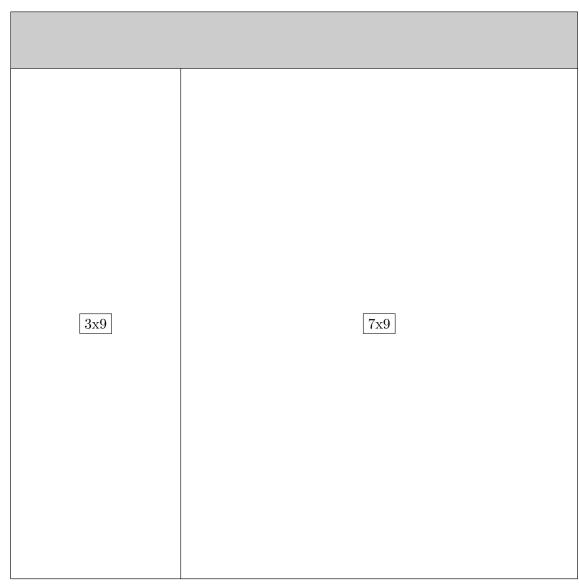
 \mathbf{w} =10 , h =10 , x =0 , y =0 , v =100



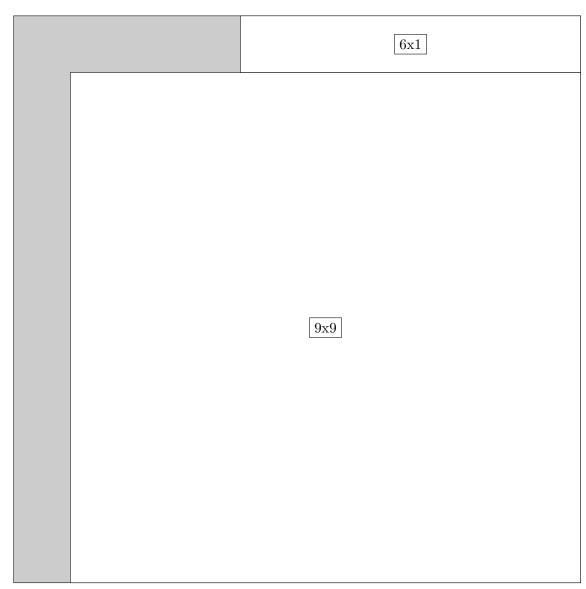
$$\begin{array}{l} w=9 \ , \ h=6 \ , \ x=1 \ , \ y=0 \ , \ v=54 \\ w=8 \ , \ h=4 \ , \ x=2 \ , \ y=6 \ , \ v=32 \\ w=1 \ , \ h=4 \ , \ x=1 \ , \ y=6 \ , \ v=4 \\ w=1 \ , \ h=9 \ , \ x=0 \ , \ y=0 \ , \ v=9 \end{array}$$

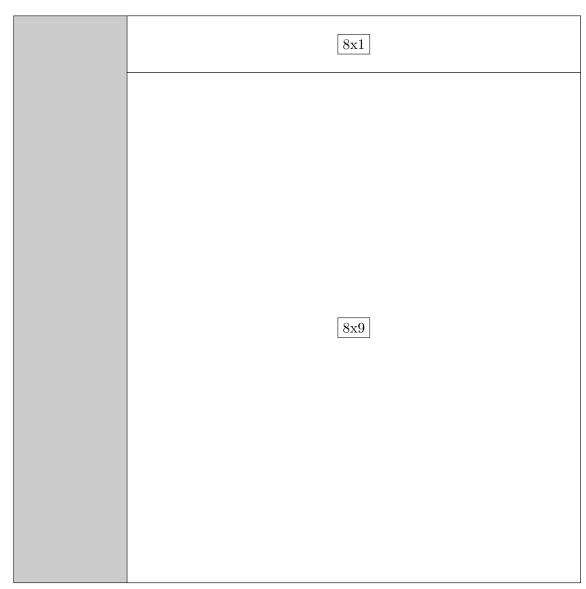


w = 10, h = 9, x = 0, y = 0, v = 90



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

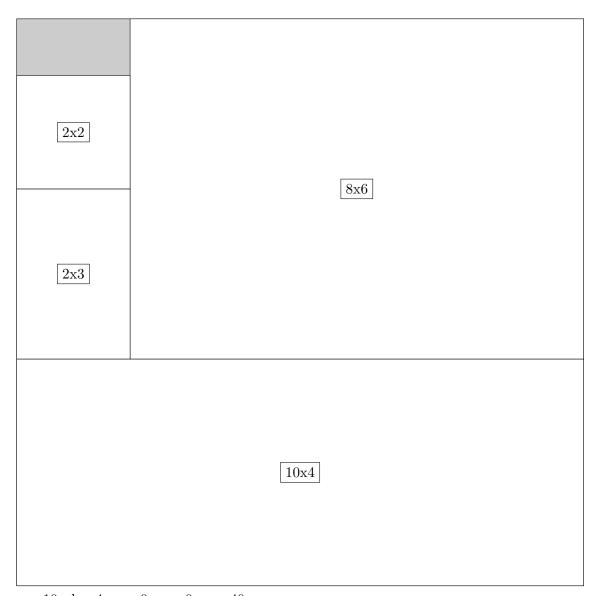




$$\begin{array}{l} w = 8 \ , \, h = 9 \ , \, x = 2 \ , \, y = 0 \ , \, v = 72 \\ w = 8 \ , \, h = 1 \ , \, x = 2 \ , \, y = 9 \ , \, v = 8 \end{array}$$

$5\mathrm{x}4$	5x3
5x6	$5\mathrm{x}7$

 $\begin{array}{l} w = 5 \ , \ h = 7 \ , \ x = 5 \ , \ y = 0 \ , \ v = 35 \\ w = 5 \ , \ h = 3 \ , \ x = 5 \ , \ y = 7 \ , \ v = 15 \\ w = 5 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 30 \\ w = 5 \ , \ h = 4 \ , \ x = 0 \ , \ y = 6 \ , \ v = 20 \end{array}$



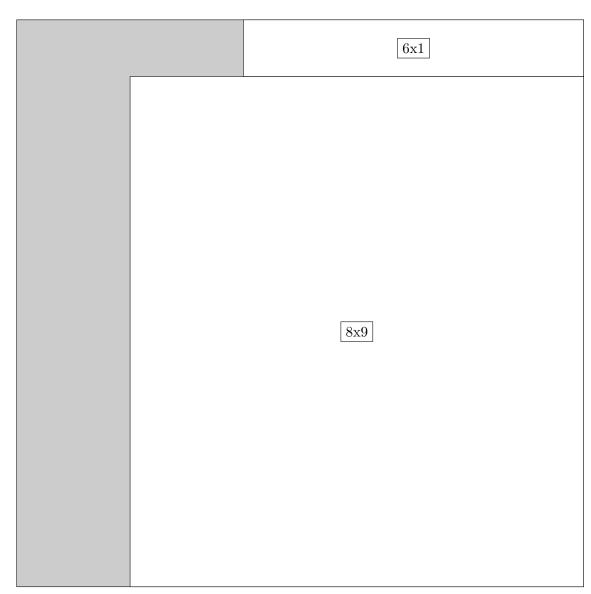
$$\begin{array}{l} w = \! 10 \ , \ h = \! 4 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 40 \\ w = \! 8 \ , \ h = \! 6 \ , \ x = \! 2 \ , \ y = \! 4 \ , \ v = \! 48 \end{array}$$

$$\mathbf{w}$$
 =2 , h =3 , x =0 , y =4 , v =6

$$\mathbf{w}$$
 =2 , h =2 , x =0 , y =7 , v =4

		9x2
1x3		9x3
	3x5	7x5

$$\begin{array}{l} w=7 \;,\; h=5 \;,\; x=3 \;,\; y=0 \;,\; v=35 \\ w=3 \;,\; h=5 \;,\; x=0 \;,\; y=0 \;,\; v=15 \\ w=9 \;,\; h=3 \;,\; x=1 \;,\; y=5 \;,\; v=27 \\ w=1 \;,\; h=3 \;,\; x=0 \;,\; y=5 \;,\; v=3 \\ w=9 \;,\; h=2 \;,\; x=1 \;,\; y=8 \;,\; v=18 \end{array}$$



$$\begin{array}{l} w = 8 \ , \, h = 9 \ , \, x = 2 \ , \, y = 0 \ , \, v = 72 \\ w = 6 \ , \, h = 1 \ , \, x = 4 \ , \, y = 9 \ , \, v = 6 \end{array}$$

3x2	6x2
	5x3
5x8	5x5

$$\begin{array}{l} w=5 \ , \ h=5 \ , \ x=5 \ , \ y=0 \ , \ v=25 \\ w=5 \ , \ h=3 \ , \ x=5 \ , \ y=5 \ , \ v=15 \\ w=5 \ , \ h=8 \ , \ x=0 \ , \ y=0 \ , \ v=40 \\ w=6 \ , \ h=2 \ , \ x=4 \ , \ y=8 \ , \ v=12 \\ w=3 \ , \ h=2 \ , \ x=1 \ , \ y=8 \ , \ v=6 \end{array}$$

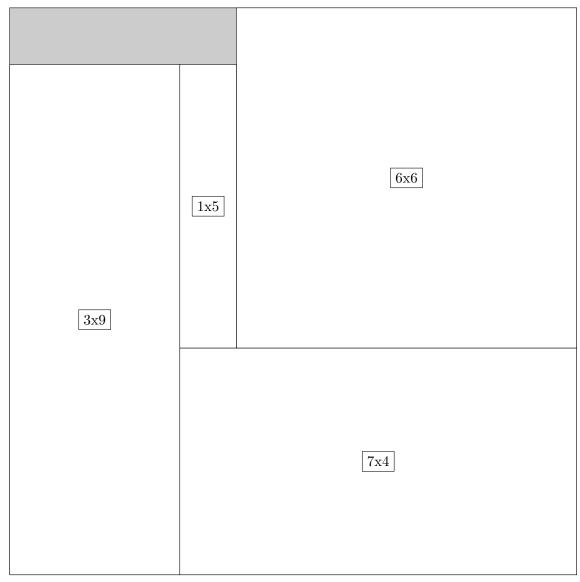
4x3	[3x4]	3x4
7x6		3x6

w = 3, h = 6, x = 7, y = 0, v = 18

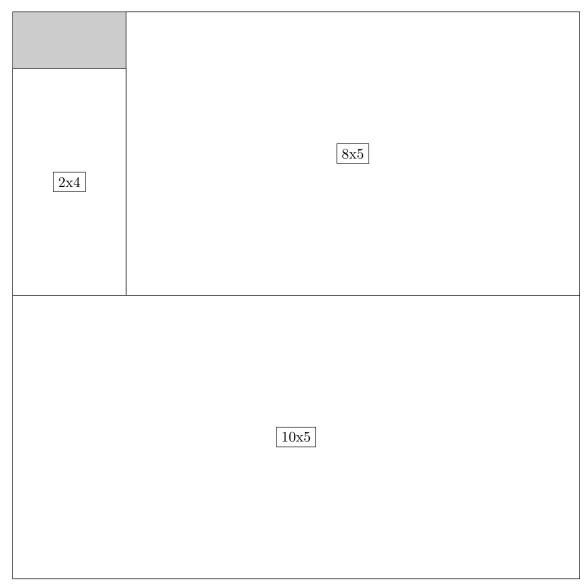
 $\begin{array}{l} w = \! 3 \ , \ h = \! 4 \ , \ x = \! 7 \ , \ y = \! 6 \ , \ v = \! 12 \\ w = \! 7 \ , \ h = \! 6 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 42 \end{array}$

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

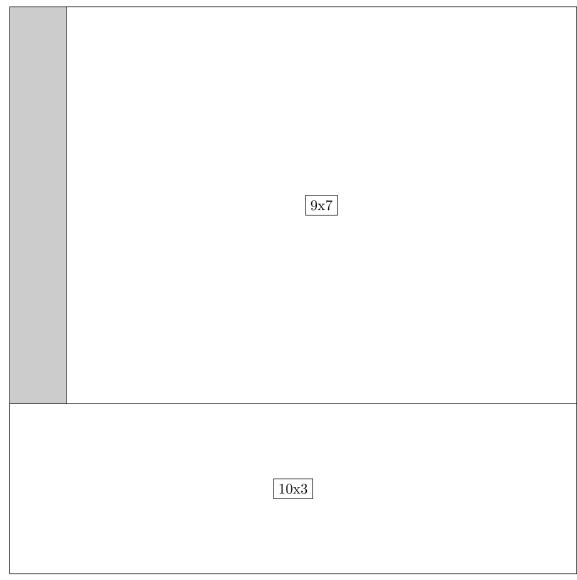
w = 3, h = 4, x = 4, y = 6, v = 12w = 4, h = 3, x = 0, y = 6, v = 12



 $\begin{array}{l} w=7\ ,\, h=4\ ,\, x=3\ ,\, y=0\ ,\, v=28\\ w=6\ ,\, h=6\ ,\, x=4\ ,\, y=4\ ,\, v=36\\ w=1\ ,\, h=5\ ,\, x=3\ ,\, y=4\ ,\, v=5\\ w=3\ ,\, h=9\ ,\, x=0\ ,\, y=0\ ,\, v=27 \end{array}$



$$\begin{array}{l} w = & 10 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 50 \\ w = & 8 \ , \ h = & 5 \ , \ x = & 2 \ , \ y = & 5 \ , \ v = & 40 \\ w = & 2 \ , \ h = & 4 \ , \ x = & 0 \ , \ y = & 5 \ , \ v = & 8 \end{array}$$



$$\begin{array}{l} w = & 10 \ , \ h = & 3 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 30 \\ w = & 9 \ , \ h = & 7 \ , \ x = & 1 \ , \ y = & 3 \ , \ v = & 63 \end{array}$$

	3x2	6x2
1x3	3x3	
	4x5	6x8

 $\begin{array}{l} w=6\ ,\, h=8\ ,\, x=4\ ,\, y=0\ ,\, v=48\\ w=4\ ,\, h=5\ ,\, x=0\ ,\, y=0\ ,\, v=20\\ w=3\ ,\, h=3\ ,\, x=1\ ,\, y=5\ ,\, v=9\\ w=1\ ,\, h=3\ ,\, x=0\ ,\, y=5\ ,\, v=3\\ w=6\ ,\, h=2\ ,\, x=4\ ,\, y=8\ ,\, v=12\\ \end{array}$

 \mathbf{w} =3 , h =2 , x =1 , y =8 , v =6