$ClassName: \ Class_01.2bp\text{-}41$

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

TypeNum: <u>63</u> Num: <u>100</u> OutS: <u>3100</u> InS: <u>3040</u> Rate: <u>0.981</u> UB: <u>31</u> LB0: <u>31</u>

LBWithCut: $\underline{\bf 31}$ NodeCut: $\underline{\bf 0}$

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

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{31}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

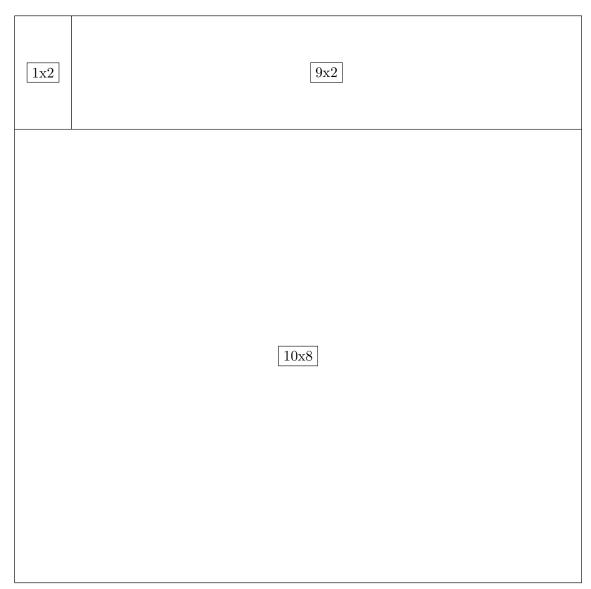
isOpt: $\underline{\mathbf{true}}$

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

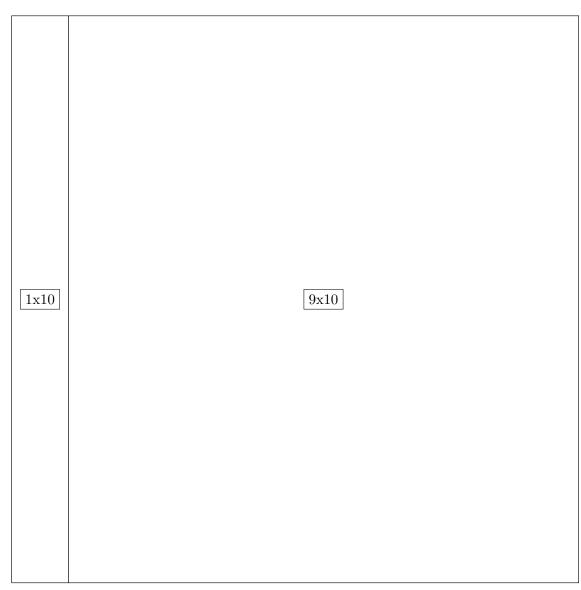
TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 600.328 s

[5x3]		[5x3]
3x7	7x7	

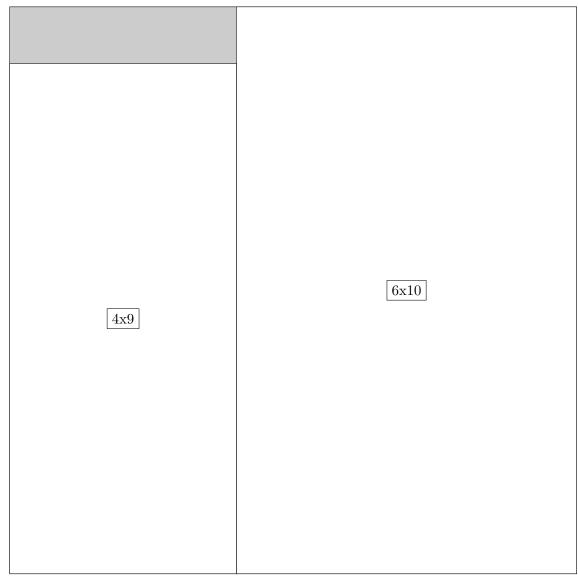
$$\begin{array}{l} w=7\ ,\, h=7\ ,\, x=3\ ,\, y=0\ ,\, v=49\\ w=3\ ,\, h=7\ ,\, x=0\ ,\, y=0\ ,\, v=21\\ w=5\ ,\, h=3\ ,\, x=5\ ,\, y=7\ ,\, v=15\\ w=5\ ,\, h=3\ ,\, x=0\ ,\, y=7\ ,\, v=15 \end{array}$$



 $\begin{array}{l} w = & 10 \ , \ h = & 8 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 80 \\ w = & 9 \ , \ h = & 2 \ , \ x = & 1 \ , \ y = & 8 \ , \ v = & 18 \\ w = & 1 \ , \ h = & 2 \ , \ x = & 0 \ , \ y = & 8 \ , \ v = & 2 \end{array}$







w =6, h =10, x =4, y =0, v =60 w =4, h =9, x =0, y =0, v =36

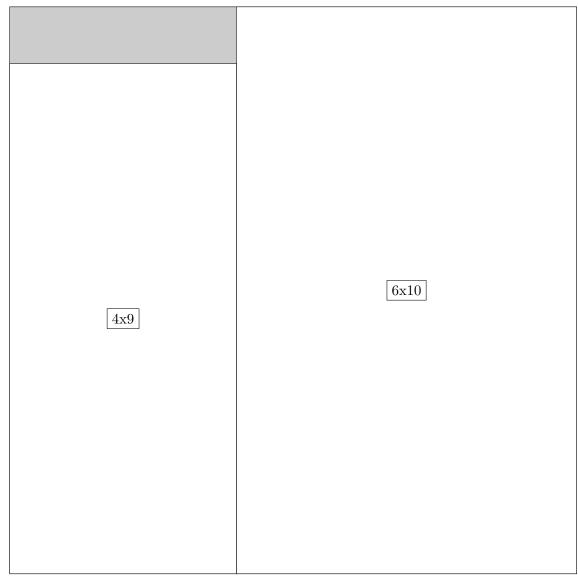
1x1	9x1
1x9	9x9

w = 9, h = 9, x = 1, y = 0, v = 81

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

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

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



w =6, h =10, x =4, y =0, v =60 w =4, h =9, x =0, y =0, v =36

2x2	8x2
2x8	8x8

 $\begin{array}{l} w=8 \ , \ h=8 \ , \ x=2 \ , \ y=0 \ , \ v=64 \\ w=2 \ , \ h=8 \ , \ x=0 \ , \ y=0 \ , \ v=16 \\ w=8 \ , \ h=2 \ , \ x=2 \ , \ y=8 \ , \ v=16 \\ w=2 \ , \ h=2 \ , \ x=0 \ , \ y=8 \ , \ v=4 \end{array}$

4x5	4x6	2x10
8x4		

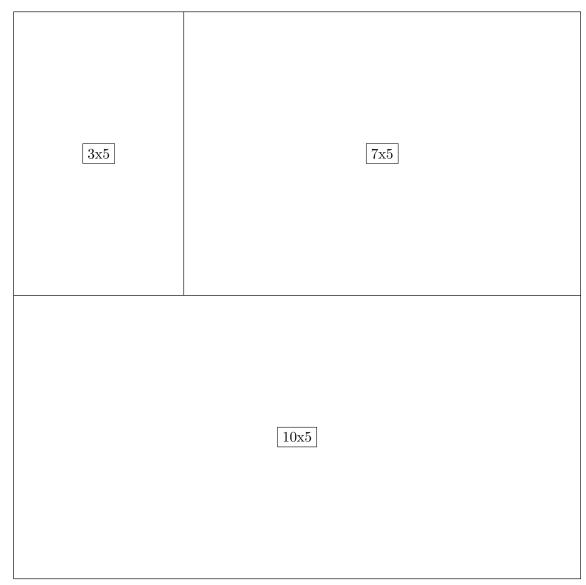
w = 2, h = 10, x = 8, y = 0, v = 20

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

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

 $\mathbf{w}=\!\!4$, $\mathbf{h}=\!\!5$, $\mathbf{x}=\!\!0$, $\mathbf{y}=\!\!4$, $\mathbf{v}=\!\!20$

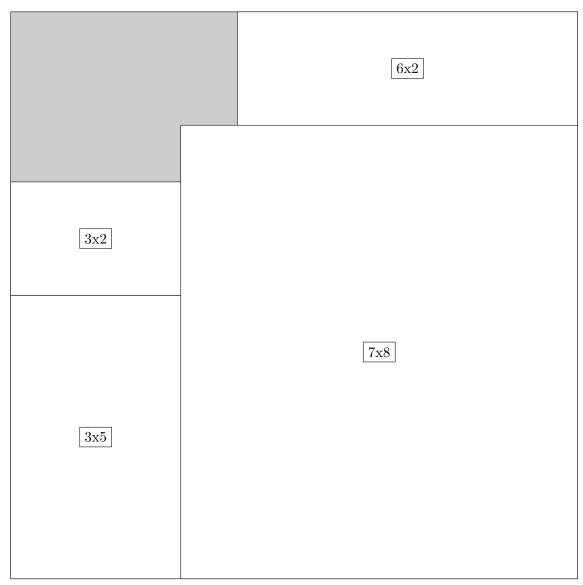




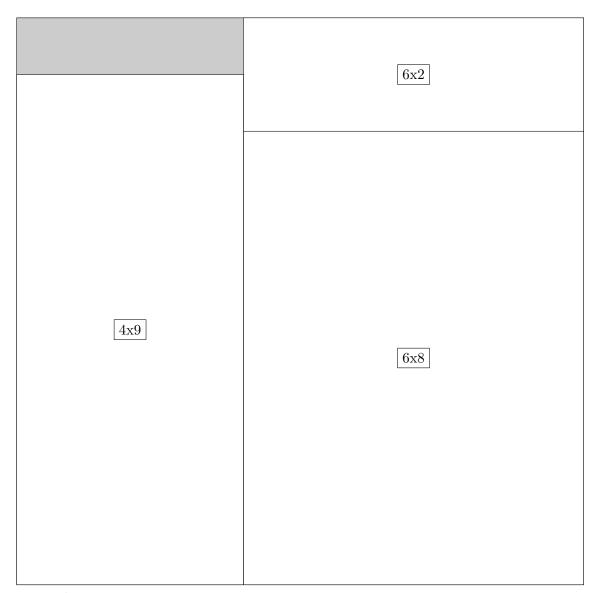
 $\begin{array}{l} w = & 10 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 50 \\ w = & 7 \ , \ h = & 5 \ , \ x = & 3 \ , \ y = & 5 \ , \ v = & 35 \\ w = & 3 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 5 \ , \ v = & 15 \end{array}$

	5x5		5x5
2x5		8x5	

$$\begin{array}{l} w = 8 \ , \, h = 5 \ , \, x = 2 \ , \, y = 0 \ , \, v = 40 \\ w = 2 \ , \, h = 5 \ , \, x = 0 \ , \, y = 0 \ , \, v = 10 \\ w = 5 \ , \, h = 5 \ , \, x = 5 \ , \, y = 5 \ , \, v = 25 \\ w = 5 \ , \, h = 5 \ , \, x = 0 \ , \, y = 5 \ , \, v = 25 \end{array}$$

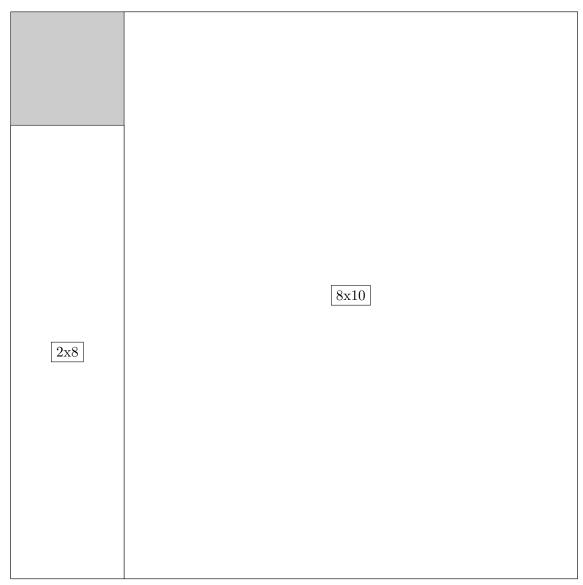


$$\begin{array}{l} w=7\ ,\, h=8\ ,\, x=3\ ,\, y=0\ ,\, v=56\\ w=6\ ,\, h=2\ ,\, x=4\ ,\, y=8\ ,\, v=12\\ w=3\ ,\, h=5\ ,\, x=0\ ,\, y=0\ ,\, v=15\\ w=3\ ,\, h=2\ ,\, x=0\ ,\, y=5\ ,\, v=6 \end{array}$$



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

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



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

8x1 2x1 10x9

$$\begin{array}{l} w = \! 10 \; , \; h = \! 9 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 90 \\ w = \! 8 \; , \; h = \! 1 \; , \; x = \! 2 \; , \; y = \! 9 \; , \; v = \! 8 \end{array}$$

$$\mathbf{w}$$
 =2 , h =1 , x =0 , y =9 , v =2

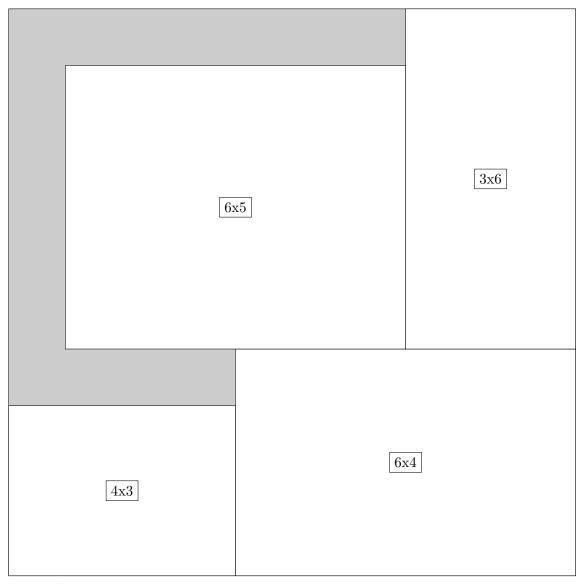
		5x1
3x9	2x10	5x9

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

w =5 , h =1 , x =5 , y =9 , v =5

 $\le =2$, h =10 , x =3 , y =0 , v =20

 \mathbf{w} =3 , h =9 , x =0 , y =0 , v =27

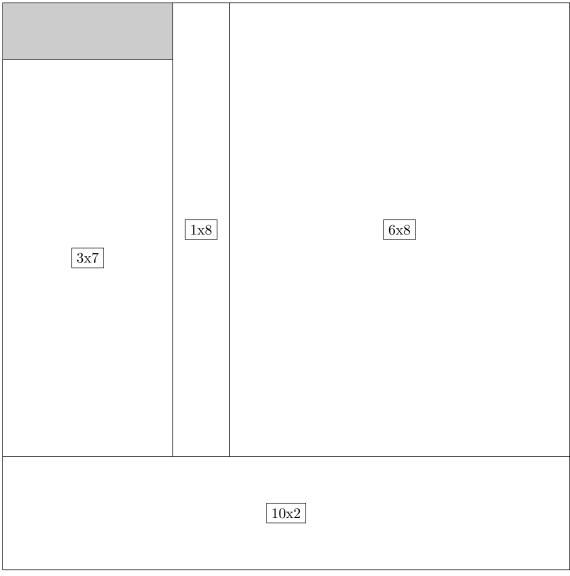


$$\mathbf{w}$$
 =6 , h =4 , x =4 , y =0 , v =24

$$\mathbf{w}$$
 =4 , h =3 , x =0 , y =0 , v =12

$$\mathbf{w}$$
 =3 , h =6 , x =7 , y =4 , v =
18

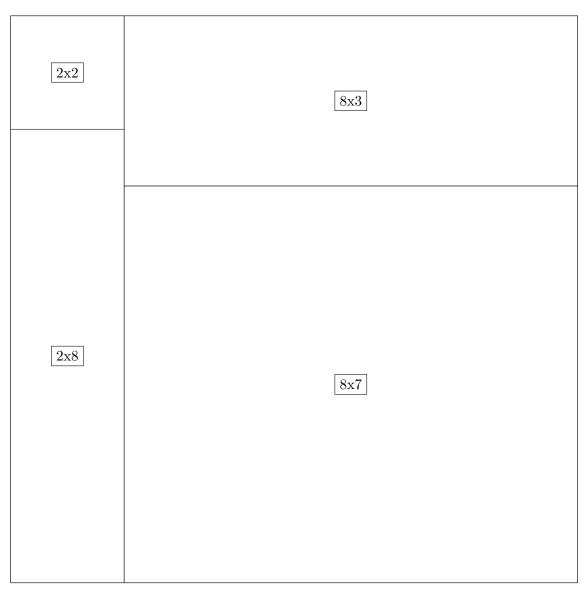
$$\mathbf{w}$$
 =6 , h =5 , x =1 , y =4 , v =30



$$\begin{array}{l} w = \! 10 \ , \ h = \! 2 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 20 \\ w = \! 6 \ , \ h = \! 8 \ , \ x = \! 4 \ , \ y = \! 2 \ , \ v = \! 48 \end{array}$$

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

$$\mathbf{w}$$
 =3 , h =7 , x =0 , y =2 , v =
21

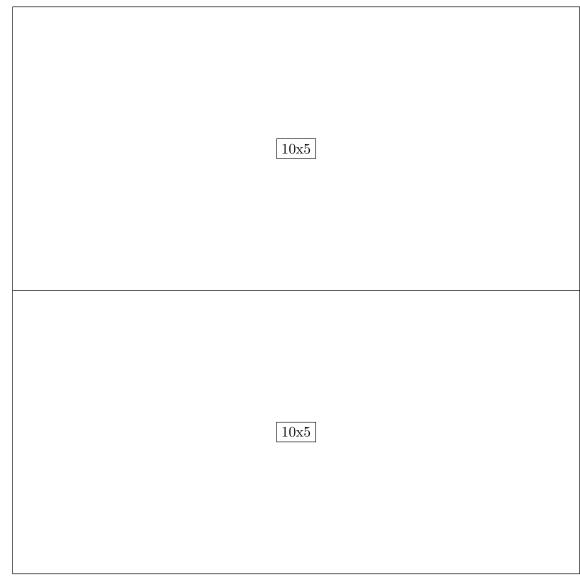


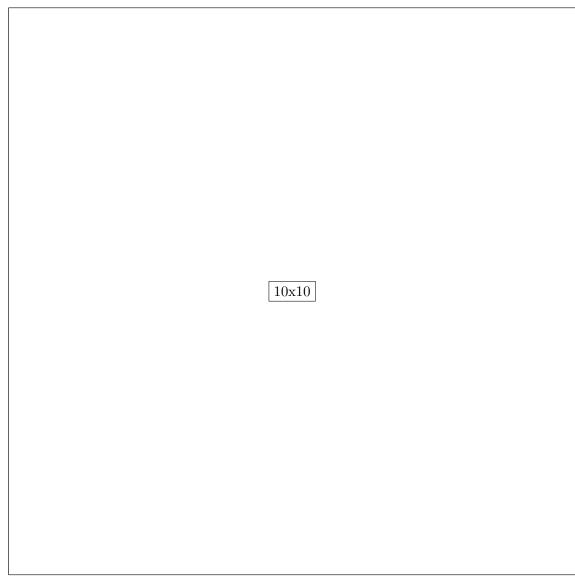
$$\begin{array}{l} w=8 \ , \ h=7 \ , \ x=2 \ , \ y=0 \ , \ v=56 \\ w=8 \ , \ h=3 \ , \ x=2 \ , \ y=7 \ , \ v=24 \\ w=2 \ , \ h=8 \ , \ x=0 \ , \ y=0 \ , \ v=16 \\ w=2 \ , \ h=2 \ , \ x=0 \ , \ y=8 \ , \ v=4 \end{array}$$



2x1		
2x2		[8x3]
1x7	3x7	6x7

$$\begin{array}{l} w=6\ ,\, h=7\ ,\, x=4\ ,\, y=0\ ,\, v=42\\ w=3\ ,\, h=7\ ,\, x=1\ ,\, y=0\ ,\, v=21\\ w=1\ ,\, h=7\ ,\, x=0\ ,\, y=0\ ,\, v=7\\ w=8\ ,\, h=3\ ,\, x=2\ ,\, y=7\ ,\, v=24\\ w=2\ ,\, h=2\ ,\, x=0\ ,\, y=7\ ,\, v=4\\ w=2\ ,\, h=1\ ,\, x=0\ ,\, y=9\ ,\, v=2 \end{array}$$





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

1x7	4x8	$5\mathrm{x}8$
1x2		9x2

$$\begin{array}{l} w=9 \ , \ h=2 \ , \ x=1 \ , \ y=0 \ , \ v=18 \\ w=1 \ , \ h=2 \ , \ x=0 \ , \ y=0 \ , \ v=2 \\ w=5 \ , \ h=8 \ , \ x=5 \ , \ y=2 \ , \ v=40 \\ w=4 \ , \ h=8 \ , \ x=1 \ , \ y=2 \ , \ v=32 \\ w=1 \ , \ h=7 \ , \ x=0 \ , \ y=2 \ , \ v=7 \end{array}$$

2x4		8x4
2x6	3x6	$5\mathrm{x}6$

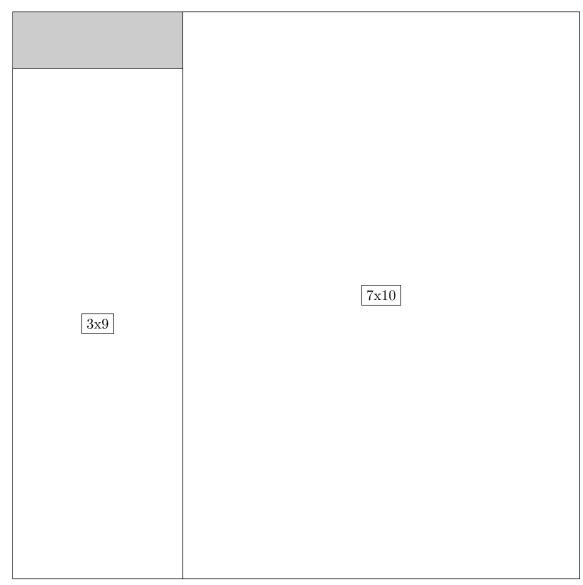
 $\begin{array}{l} w = 5 \ , \ h = 6 \ , \ x = 5 \ , \ y = 0 \ , \ v = 30 \\ w = 3 \ , \ h = 6 \ , \ x = 2 \ , \ y = 0 \ , \ v = 18 \\ w = 2 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 12 \\ w = 8 \ , \ h = 4 \ , \ x = 2 \ , \ y = 6 \ , \ v = 32 \end{array}$

w = 2, h = 4, x = 0, y = 6, v = 8

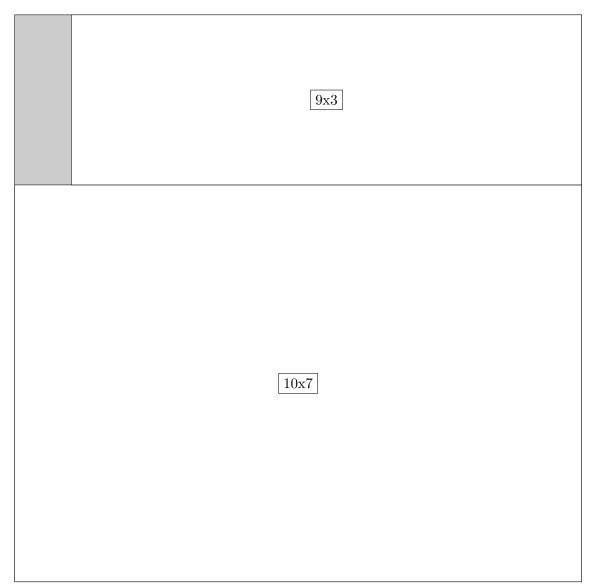
2x3		[8x3]	
43	×7		6x7

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

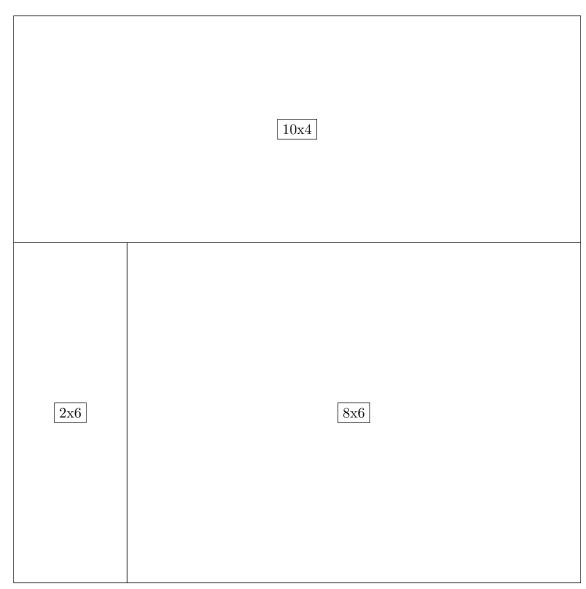
 \mathbf{w} =2 , h =3 , x =0 , y =7 , v =6



w =7, h =10, x =3, y =0, v =70 w =3, h =9, x =0, y =0, v =27



$$\begin{array}{l} w = \! 10 \ , \ h = \! 7 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 70 \\ w = \! 9 \ , \ h = \! 3 \ , \ x = \! 1 \ , \ y = \! 7 \ , \ v = \! 27 \end{array}$$



$$\begin{array}{l} w = 8 \ , \ h = 6 \ , \ x = 2 \ , \ y = 0 \ , \ v = 48 \\ w = 2 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 12 \\ w = 10 \ , \ h = 4 \ , \ x = 0 \ , \ y = 6 \ , \ v = 40 \end{array}$$

1x2	3x2	[6x2]
		10x8

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

$$\mathbf{w}$$
 =6 , h =2 , x =4 , y =8 , v =12

$$\le 3$$
 , h =2 , x =1 , y =8 , v =6

$$\mathbf{w}$$
 =1 , h =2 , x =0 , y =8 , v =2