$ClassName: \ Class_01.2bp\text{-}45$

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

TypeNum: <u>66</u> Num: <u>100</u> OutS: <u>3700</u> InS: <u>3378</u> Rate: <u>0.913</u> UB: <u>37</u> LB0: <u>37</u>

LB0: <u>37</u> LB: <u>37</u>

LBWithCut: $\underline{\mathbf{37}}$ NodeCut: $\underline{\mathbf{0}}$

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

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{37}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

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

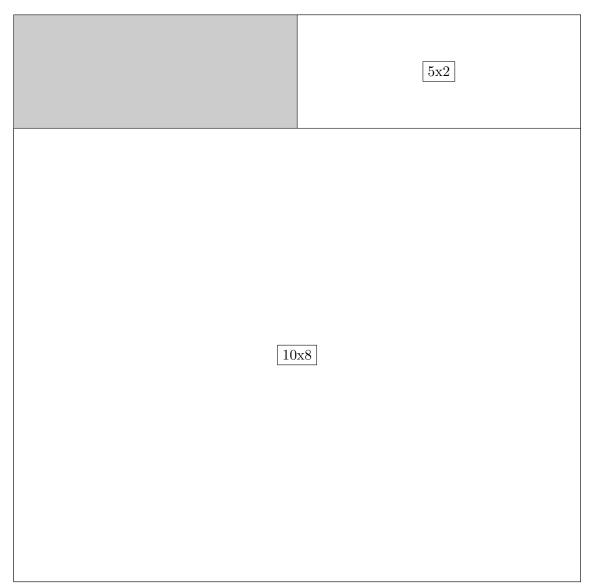
TimeOnInitSolution: 0.010 sTimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 0.157 s



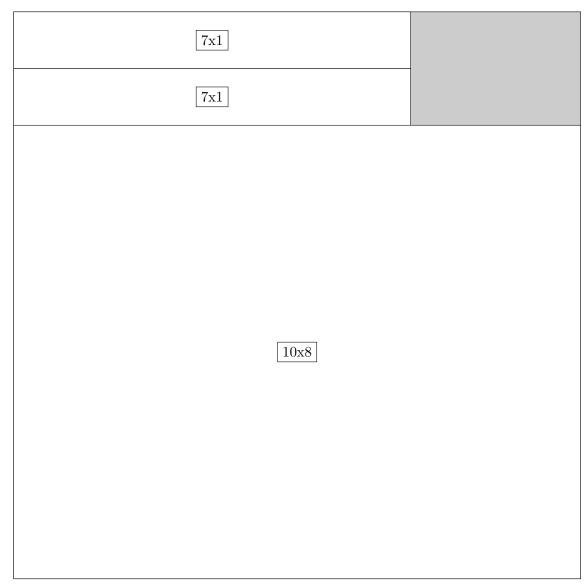
 \mathbf{w} =10 , h =10 , x =0 , y =0 , v =100

4x1	6x2
	10x8

$$\begin{array}{l} w = \! 10 \; , \; h = \! 8 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 80 \\ w = \! 6 \; , \; h = \! 2 \; , \; x = \! 4 \; , \; y = \! 8 \; , \; v = \! 12 \\ w = \! 4 \; , \; h = \! 1 \; , \; x = \! 0 \; , \; y = \! 8 \; , \; v = \! 4 \end{array}$$



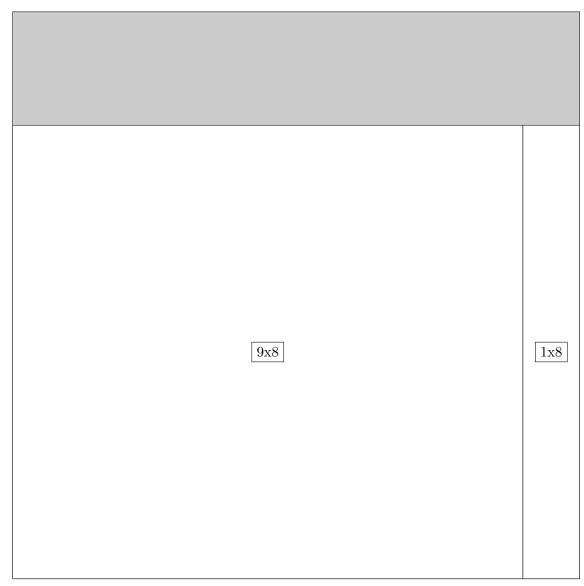
 $\begin{array}{l} w = \! 10 \ , \ h = \! 8 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 80 \\ w = \! 5 \ , \ h = \! 2 \ , \ x = \! 5 \ , \ y = \! 8 \ , \ v = \! 10 \end{array}$



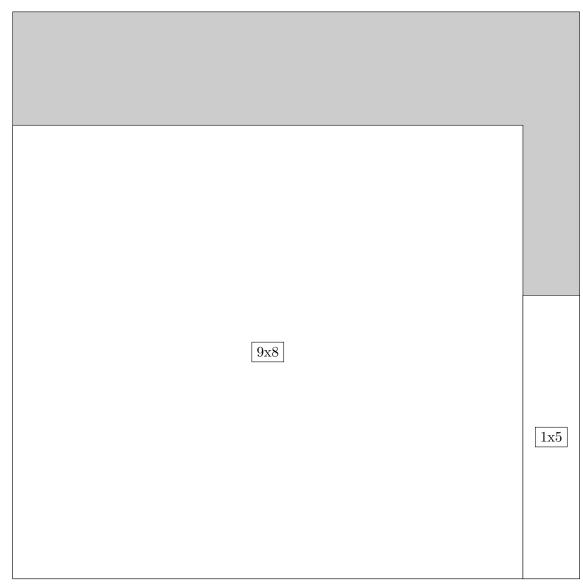
$$\begin{array}{l} w = & 10 \ , \ h = & 8 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 80 \\ w = & 7 \ , \ h = & 1 \ , \ x = & 0 \ , \ y = & 8 \ , \ v = & 7 \\ w = & 7 \ , \ h = & 1 \ , \ x = & 0 \ , \ y = & 9 \ , \ v = & 7 \end{array}$$

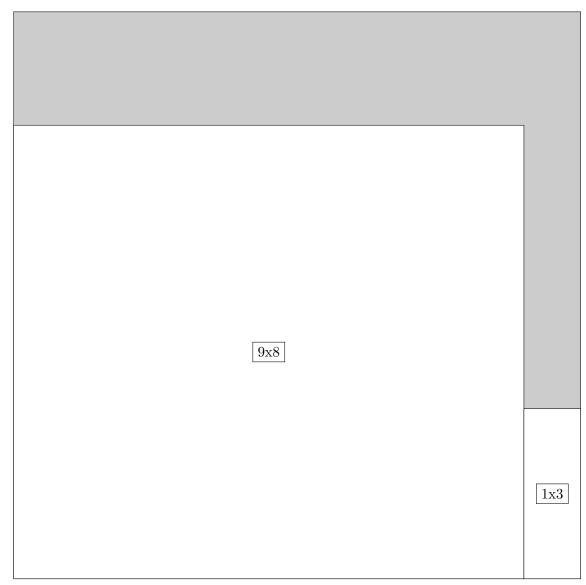


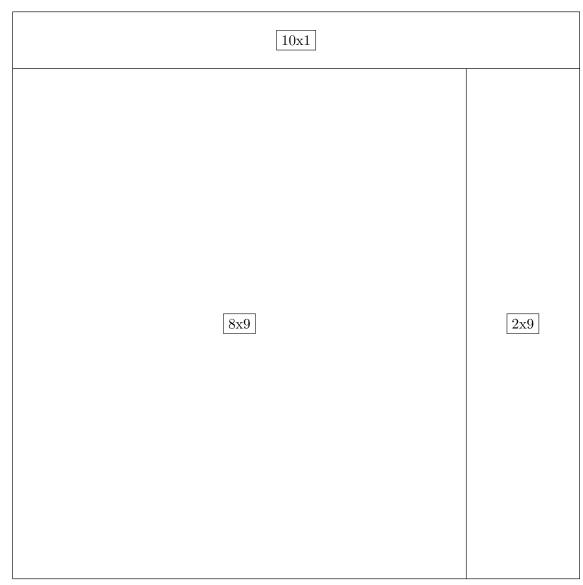




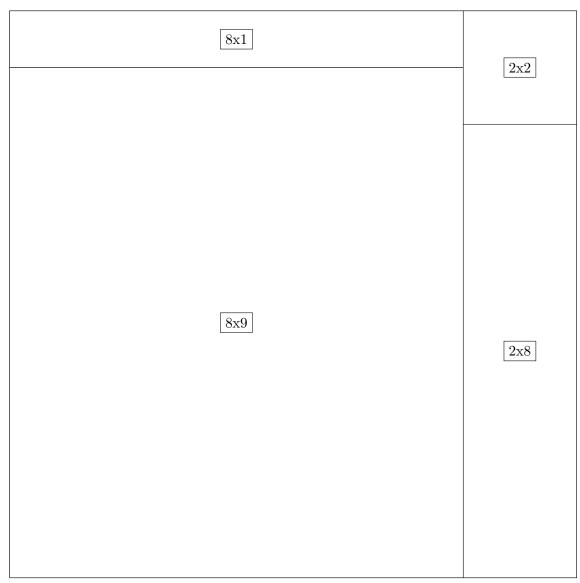
w =9, h =8, x =0, y =0, v =72 w =1, h =8, x =9, y =0, v =8







 $\begin{array}{l} w = 8 \; , \; h = 9 \; , \; x = 0 \; , \; y = 0 \; , \; v = 72 \\ w = 2 \; , \; h = 9 \; , \; x = 8 \; , \; y = 0 \; , \; v = 18 \\ w = 10 \; , \; h = 1 \; , \; x = 0 \; , \; y = 9 \; , \; v = 10 \end{array}$



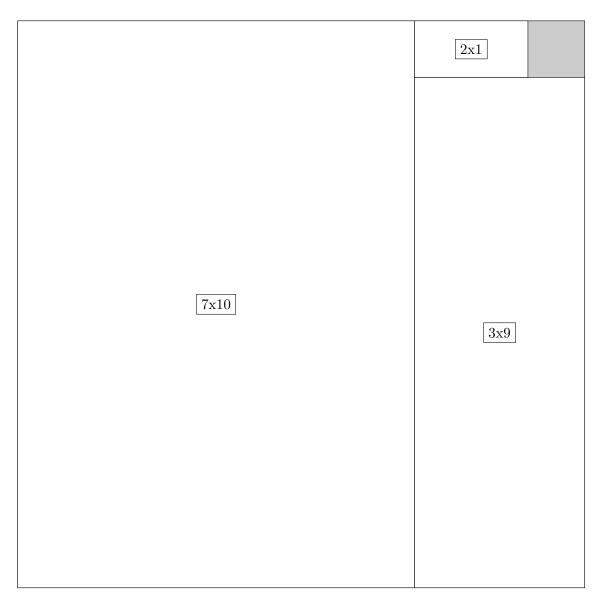
$$\mathbf{w}$$
 =8 , h =9 , x =0 , y =0 , v =72

$$\mathbf{w}$$
 =2 , h =8 , x =8 , y =0 , v =
16

$$\mathbf{w}$$
 =8 , h =1 , x =0 , y =9 , v =8

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

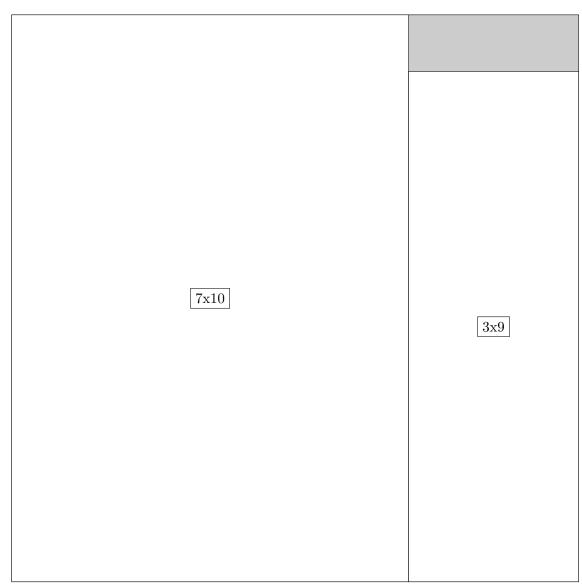




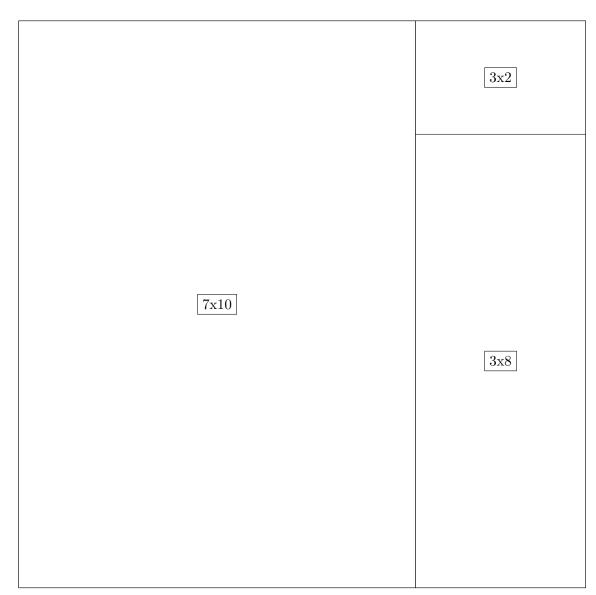
$$\mathbf{w}$$
 =7 , \mathbf{h} =10 , \mathbf{x} =0 , \mathbf{y} =0 , \mathbf{v} =70

$$\mathbf{w}$$
 =3 , h =9 , x =7 , y =0 , v =27

$$w=2$$
 , $h=1$, $x=7$, $y=9$, $v=2$

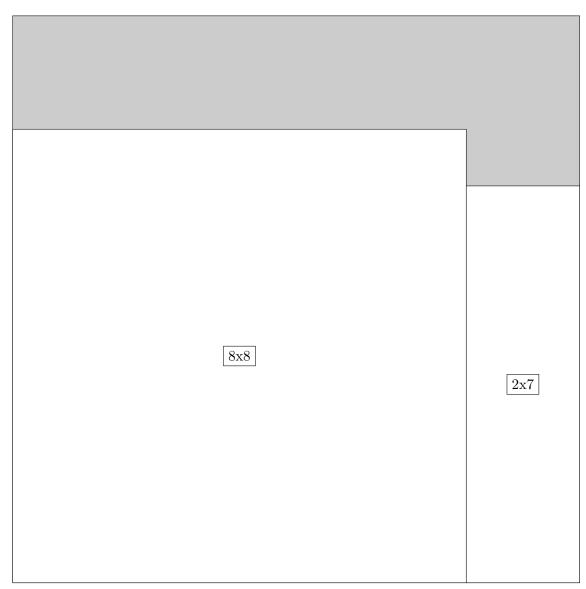


w = 7, h = 10, x = 0, y = 0, v = 70 w = 3, h = 9, x = 7, y = 0, v = 27

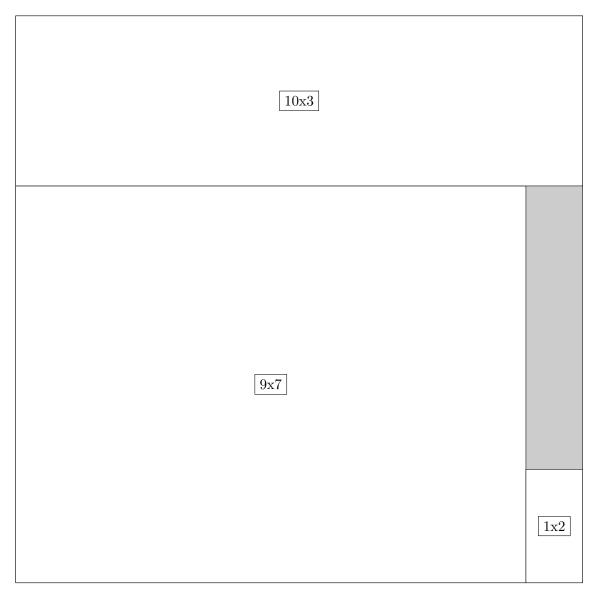


$$\mathbf{w}$$
 =7 , \mathbf{h} =10 , \mathbf{x} =0 , \mathbf{y} =0 , \mathbf{v} =70

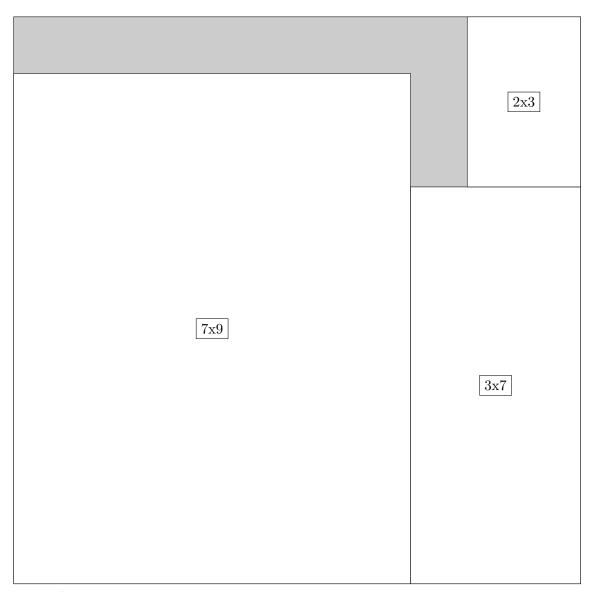
$$w = 3$$
, $h = 2$, $x = 7$, $y = 8$, $v = 6$



w =8, h =8, x =0, y =0, v =64 w =2, h =7, x =8, y =0, v =14

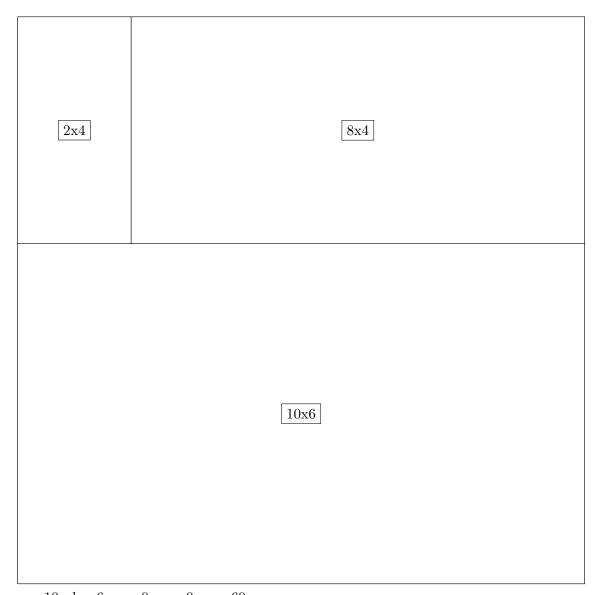


$$\begin{array}{l} w = 9 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 63 \\ w = 10 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 30 \\ w = 1 \ , \ h = 2 \ , \ x = 9 \ , \ y = 0 \ , \ v = 2 \end{array}$$

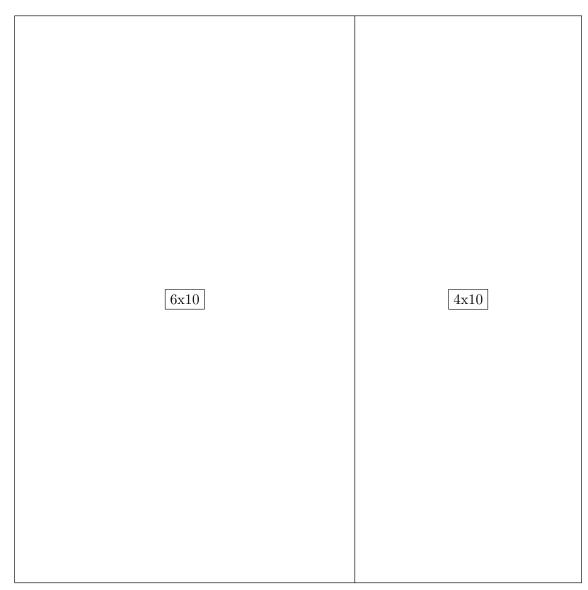


$$\mathbf{w}$$
 =7 , h =9 , x =0 , y =0 , v =63

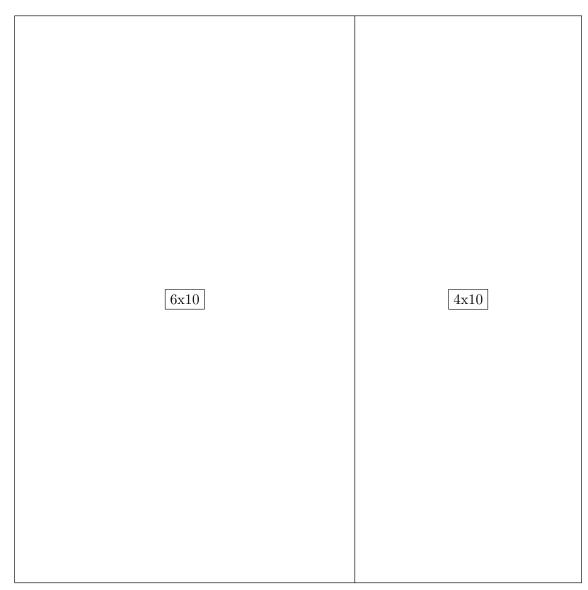
$$w = 2$$
, $h = 3$, $x = 8$, $y = 7$, $v = 6$



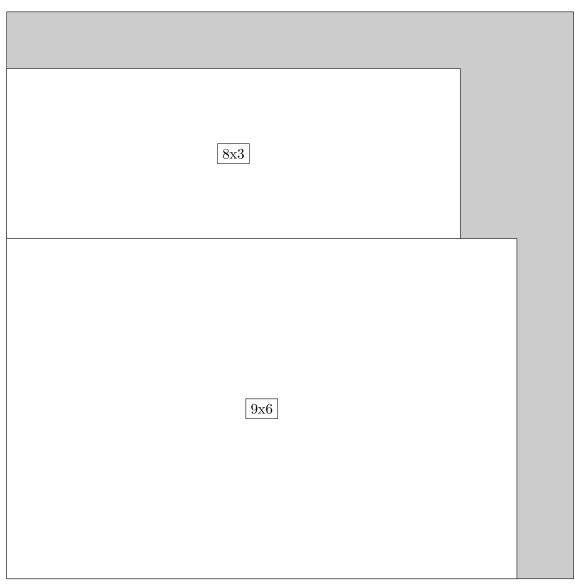
$$\begin{array}{l} w = & 10 \ , \ h = & 6 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 60 \\ w = & 8 \ , \ h = & 4 \ , \ x = & 2 \ , \ y = & 6 \ , \ v = & 32 \\ w = & 2 \ , \ h = & 4 \ , \ x = & 0 \ , \ y = & 6 \ , \ v = & 8 \end{array}$$

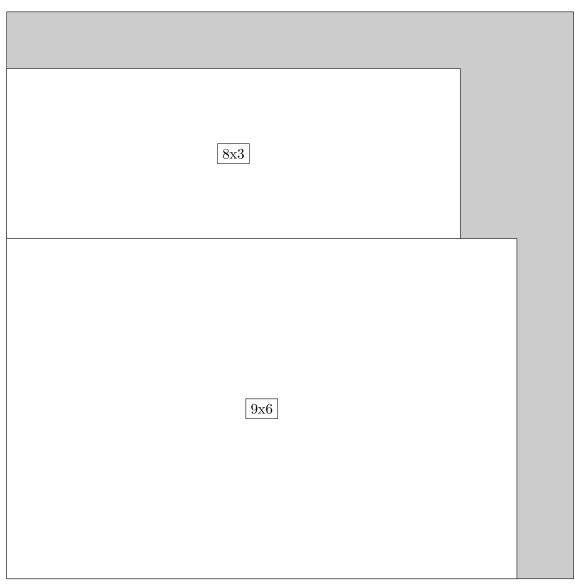


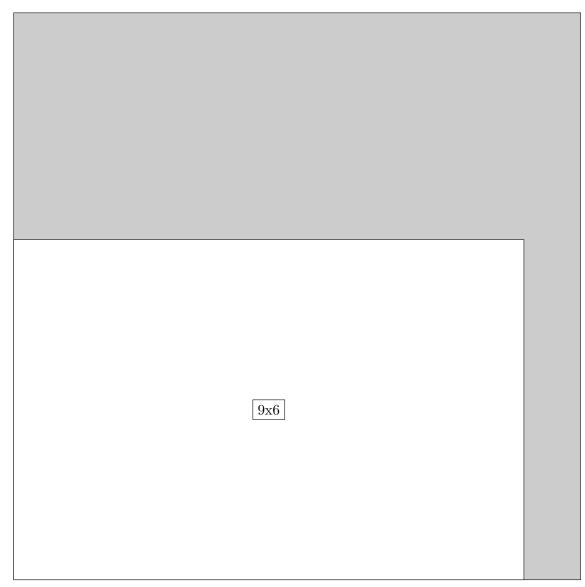
w =6, h =10, x =0, y =0, v =60 w =4, h =10, x =6, y =0, v =40



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







 $\le =9$, h =6 , x =0 , y =0 , v = 54



 $\begin{array}{l} w = 6 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 54 \\ w = 4 \ , \ h = 9 \ , \ x = 6 \ , \ y = 0 \ , \ v = 36 \\ w = 10 \ , \ h = 1 \ , \ x = 0 \ , \ y = 9 \ , \ v = 10 \end{array}$

7x3	3x4
7x7	3x6

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

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

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

$$\mathbf{w}=\!3$$
 , $\mathbf{h}=\!\!4$, $\mathbf{x}=\!\!7$, $\mathbf{y}=\!\!6$, $\mathbf{v}=\!\!12$

2x4		8x4	
	8x6		2x6

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

$$\mathbf{w}$$
 =8 , h =4 , x =2 , y =6 , v =32

$$w = 2$$
 , $h = 6$, $x = 8$, $y = 0$, $v = 12$

$$\mathbf{w}$$
 =2 , h =4 , x =0 , y =6 , v =8

6x8	4x8	
O.C.		

 $\begin{array}{l} w = 6 \ , \, h = 8 \ , \, x = 0 \ , \, y = 0 \ , \, v = \!\! 48 \\ w = \!\! 4 \ , \, h = \!\! 8 \ , \, x = \!\! 6 \ , \, y = \!\! 0 \ , \, v = \!\! 32 \end{array}$

3x4		7x4	
	7x6		3x6

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

$$\mathbf{w}$$
 =7 , h =4 , x =3 , y =6 , v =28

$$\mathbf{w}$$
 =3 , h =6 , x =7 , y =0 , v =18

$$\mathbf{w}$$
 =3 , h =4 , x =0 , y =6 , v =12

4x4	6x4	
6x6	4x6	

$$\begin{array}{l} w=6 \ , h=6 \ , x=0 \ , y=0 \ , v=36 \\ w=6 \ , h=4 \ , x=4 \ , y=6 \ , v=24 \\ w=4 \ , h=6 \ , x=6 \ , y=0 \ , v=24 \\ w=4 \ , h=4 \ , x=0 \ , y=6 \ , v=16 \end{array}$$

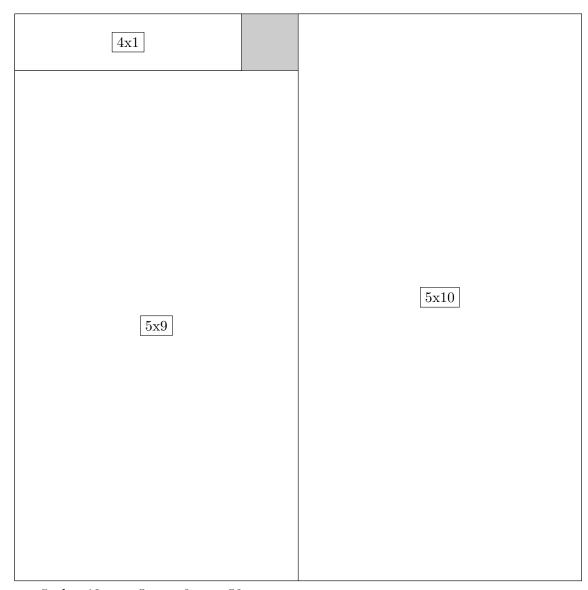
4x4	[6x4]	
82	x6	2x6

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

$$w = 2$$
 , $h = 6$, $x = 8$, $y = 0$, $v = 12$

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

 $[\]mathbf{w}=\!\!4$, $\mathbf{h}=\!\!4$, $\mathbf{x}=\!\!0$, $\mathbf{y}=\!\!6$, $\mathbf{v}=\!\!16$



 $\begin{array}{l} w = \!\! 5 \ , \ h = \!\! 10 \ , \ x = \!\! 5 \ , \ y = \!\! 0 \ , \ v = \!\! 50 \\ w = \!\! 5 \ , \ h = \!\! 9 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 45 \\ w = \!\! 4 \ , \ h = \!\! 1 \ , \ x = \!\! 0 \ , \ y = \!\! 9 \ , \ v = \!\! 4 \end{array}$

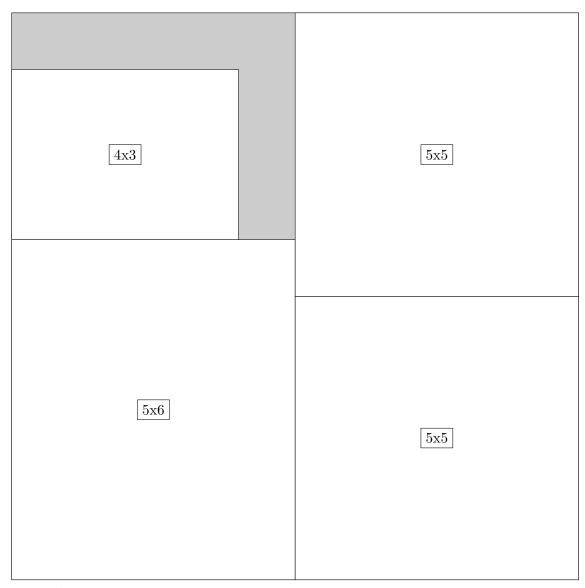
4x5	$6\mathrm{x}5$	
6x5	4x5	

w = 6, h = 5, x = 0, y = 0, v = 30

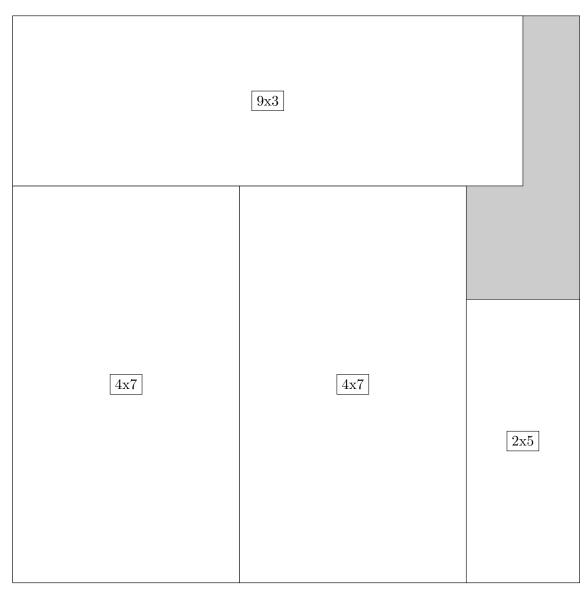
w = 6, h = 5, x = 4, y = 5, v = 30

w = 4, h = 5, x = 6, y = 0, v = 20

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



 $\begin{array}{l} w = 5 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 30 \\ w = 5 \ , \ h = 5 \ , \ x = 5 \ , \ y = 0 \ , \ v = 25 \\ w = 5 \ , \ h = 5 \ , \ x = 5 \ , \ y = 5 \ , \ v = 25 \\ w = 4 \ , \ h = 3 \ , \ x = 0 \ , \ y = 6 \ , \ v = 12 \end{array}$



$$w = 4$$
, $h = 7$, $x = 0$, $y = 0$, $v = 28$

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

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

$$\mathbf{w}$$
 =2 , h =5 , x =8 , y =0 , v =10

