$ClassName: \ Class_01.2bp-47$

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

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>

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

TimeOnInitSolution: $\underline{0.170 \text{ s}}$ TimeOnPrimal: $\underline{0.000 \text{ s}}$ TimeOnPricing: $\underline{0.000 \text{ s}}$ TimeOnRmp: $\underline{0.075 \text{ s}}$ TotalTime: $\underline{0.313 \text{ s}}$



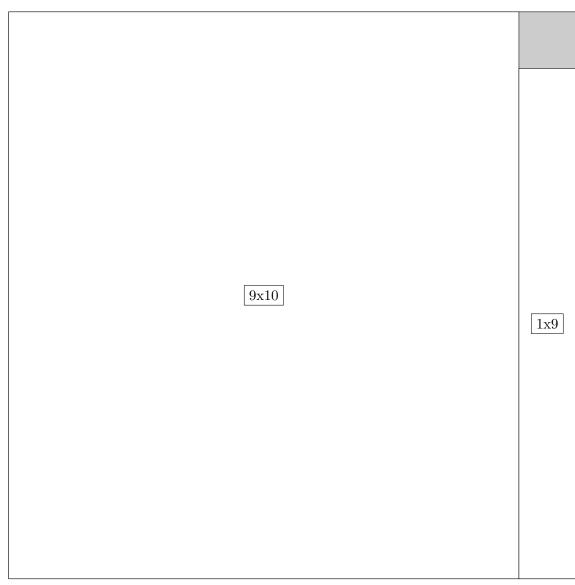
 \mathbf{w} =10 , h =10 , x =0 , y =0 , v =100



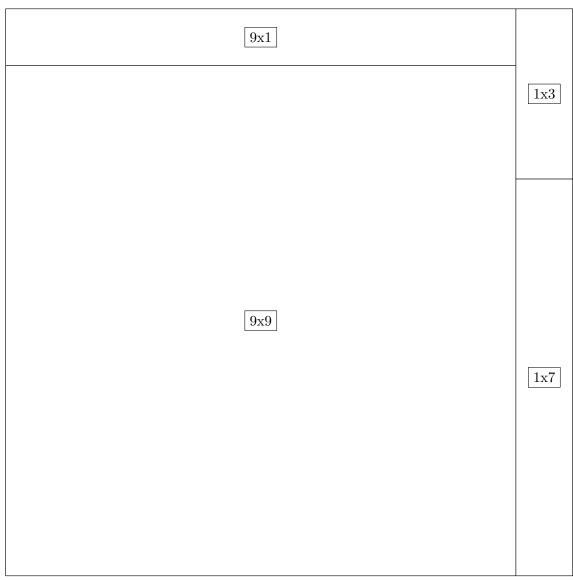
 \mathbf{w} =10 , h =10 , x =0 , y =0 , v =100







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

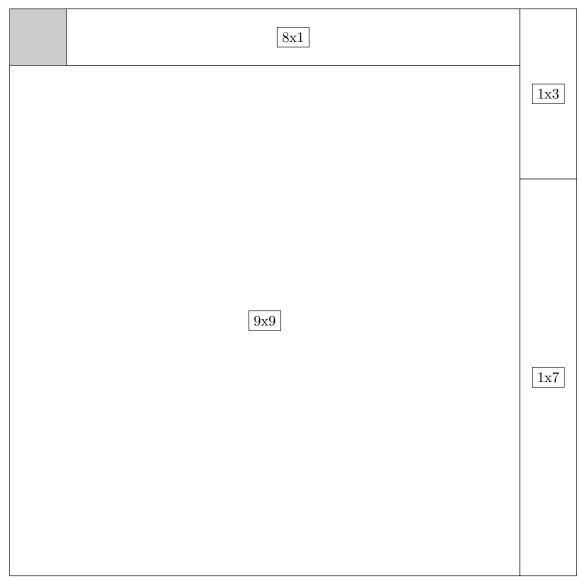


$$\mathbf{w}$$
 =9 , h =9 , x =0 , y =0 , v =81

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

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

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



$$\mathbf{w}$$
 =9 , h =9 , x =0 , y =0 , v =81

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

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

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



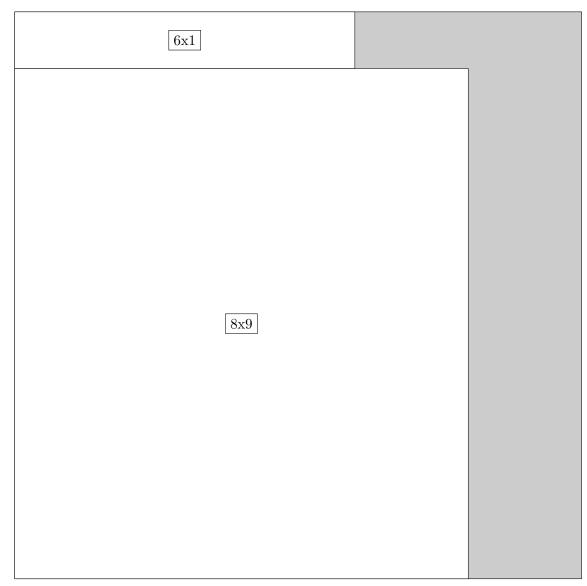
	2x2
$oxed{8\mathrm{x}10}$	2x3
	[2x4]

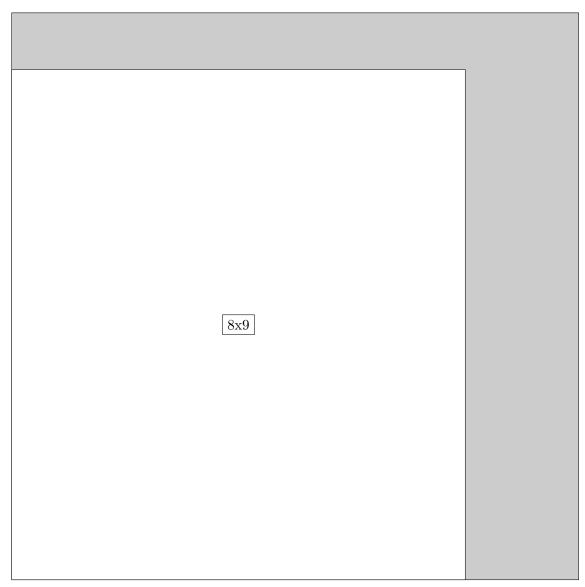
$$\le =8$$
 , h =10 , x =0 , y =0 , v =80

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

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

$$\mathbf{w}$$
 =2 , h =2 , x =8 , y =7 , v =4



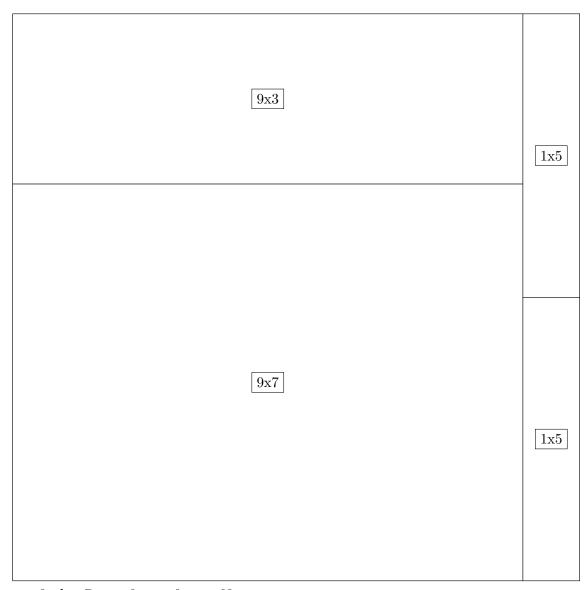


 \mathbf{w} =8 , h =9 , x =0 , y =0 , v =72



9x2	
8x8	2x8

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



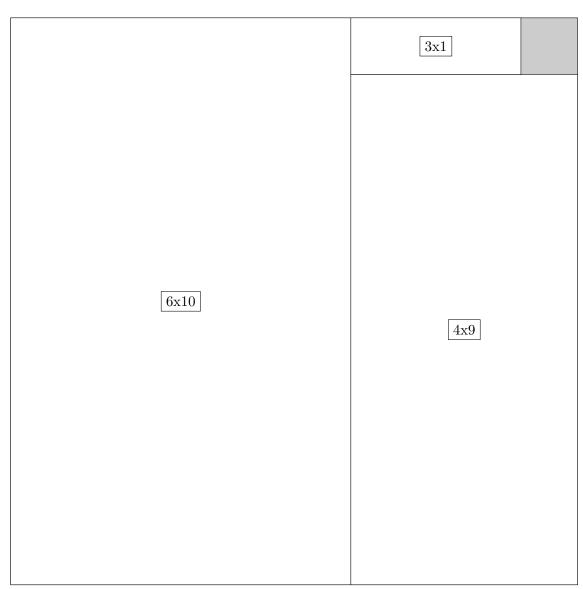
$$\begin{array}{l} w = 9 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 63 \\ w = 9 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 27 \end{array}$$

$$w = 3$$
, $h = 3$, $x = 0$, $y = 7$, $v = 2$
 $w = 1$, $h = 5$, $x = 9$, $y = 0$, $v = 5$

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

[7x1]	
7x9	3x10

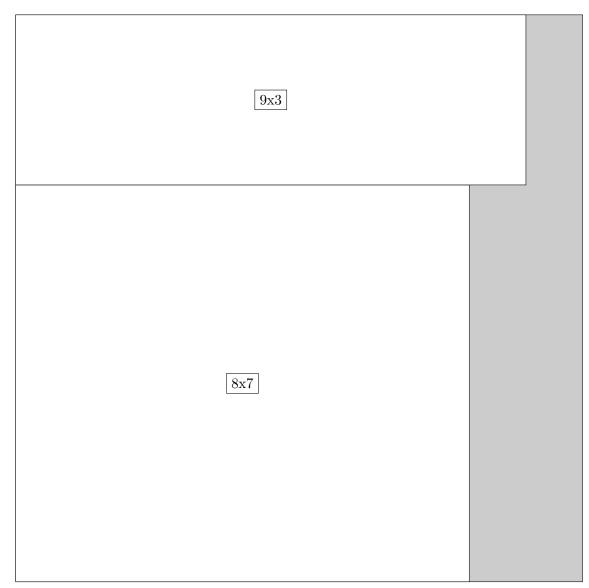
 $\begin{array}{l} w = 7 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 63 \\ w = 3 \ , \ h = 10 \ , \ x = 7 \ , \ y = 0 \ , \ v = 30 \\ w = 7 \ , \ h = 1 \ , \ x = 0 \ , \ y = 9 \ , \ v = 7 \end{array}$



$$\mathbf{w}$$
 =6 , h =10 , x =0 , y =0 , v =60

$$\mathbf{w}$$
 =4 , h =9 , x =6 , y =0 , v =36

$$w = 3$$
 , $h = 1$, $x = 6$, $y = 9$, $v = 3$





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

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

$$\mathbf{w}$$
 =1 , h =4 , x =9 , y =5 , v =4

10x3	
7x7	3x7

$$\begin{array}{l} w = 7 \;,\; h = 7 \;,\; x = 0 \;,\; y = 0 \;,\; v = 49 \\ w = 10 \;,\; h = 3 \;,\; x = 0 \;,\; y = 7 \;,\; v = 30 \\ w = 3 \;,\; h = 7 \;,\; x = 7 \;,\; y = 0 \;,\; v = 21 \end{array}$$

	62	(1)
7x2		
7x7		3x9

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

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

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

 \mathbf{w} =6 , h =1 , x =4 , y =9 , v =6



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

$$w = 0$$
, $h = 4$, $x = 0$, $y = 0$, $v = 32$
 $w = 1$, $h = 3$, $x = 8$, $y = 0$, $v = 32$

9x2	
	4x3
6x8	4x5

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

$$\le =9$$
 , h =2 , x =1 , y =8 , v =18

$$\mathbf{w}=\!\!4$$
 , $\mathbf{h}=\!\!3$, $\mathbf{x}=\!\!6$, $\mathbf{y}=\!\!5$, $\mathbf{v}=\!\!12$

7x4	
7x6	3x9

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

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

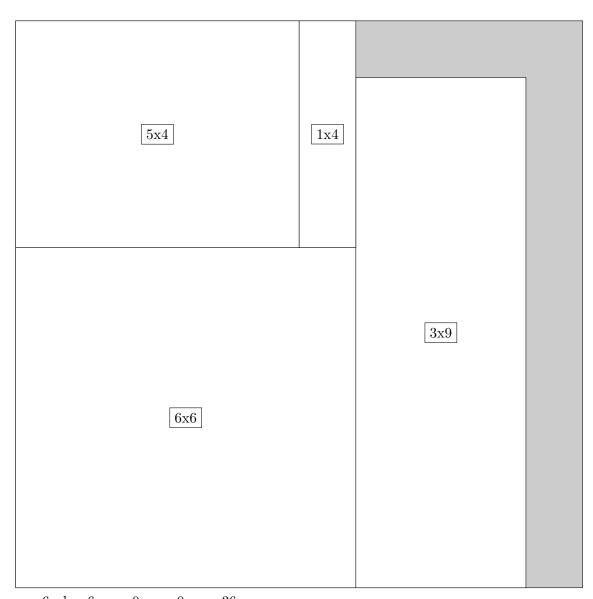
	[10x4]	
6x6		4x6

 $\begin{array}{l} w = \! 10 \ , \ h = \! 4 \ , \ x = \! 0 \ , \ y = \! 6 \ , \ v = \! 40 \\ w = \! 6 \ , \ h = \! 6 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 36 \\ w = \! 4 \ , \ h = \! 6 \ , \ x = \! 6 \ , \ y = \! 0 \ , \ v = \! 24 \end{array}$

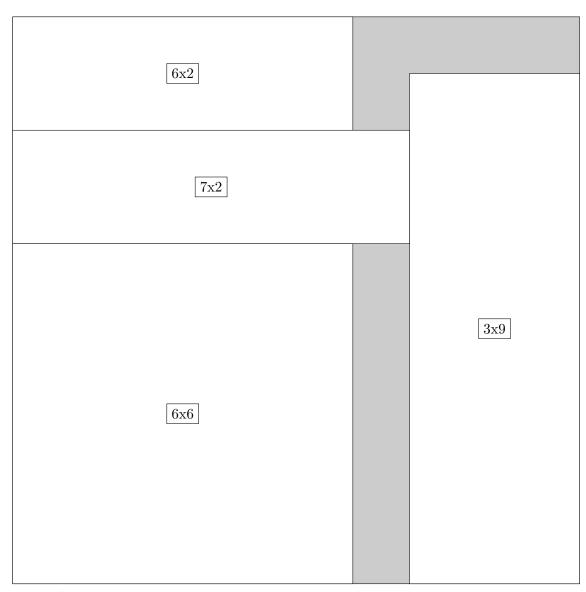
$6\mathrm{x}4$	4x3
6x6	3x6

$$\begin{array}{l} w = 6 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 36 \\ w = 6 \ , \ h = 4 \ , \ x = 0 \ , \ y = 6 \ , \ v = 24 \\ w = 3 \ , \ h = 6 \ , \ x = 6 \ , \ y = 0 \ , \ v = 18 \end{array}$$

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

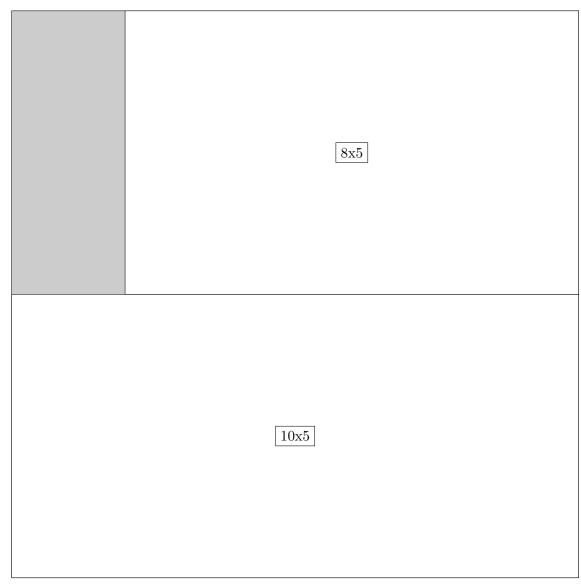


$$\begin{array}{l} w=6\ ,\, h=6\ ,\, x=0\ ,\, y=0\ ,\, v=36\\ w=3\ ,\, h=9\ ,\, x=6\ ,\, y=0\ ,\, v=27\\ w=5\ ,\, h=4\ ,\, x=0\ ,\, y=6\ ,\, v=20\\ w=1\ ,\, h=4\ ,\, x=5\ ,\, y=6\ ,\, v=4 \end{array}$$

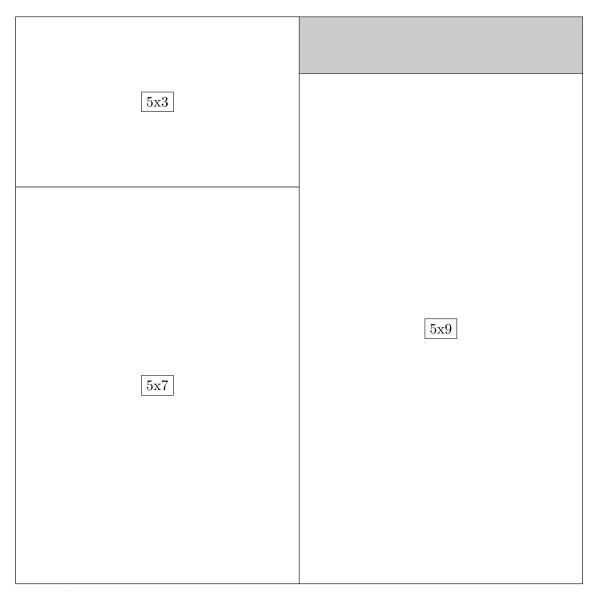


$$\begin{array}{l} w=6\ ,\, h=6\ ,\, x=0\ ,\, y=0\ ,\, v=36\\ w=3\ ,\, h=9\ ,\, x=7\ ,\, y=0\ ,\, v=27\\ w=7\ ,\, h=2\ ,\, x=0\ ,\, y=6\ ,\, v=14\\ w=6\ ,\, h=2\ ,\, x=0\ ,\, y=8\ ,\, v=12 \end{array}$$

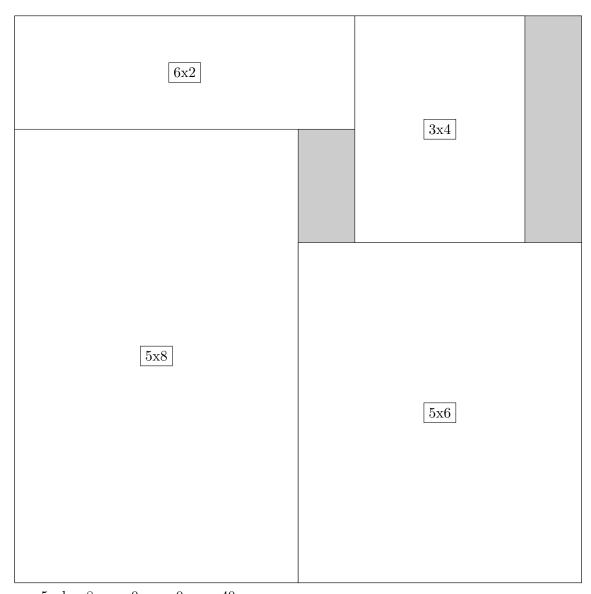
$5\mathrm{x}10$	$5\mathrm{x}10$



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



 $\begin{array}{l} w = 5 \ , \ h = 9 \ , \ x = 5 \ , \ y = 0 \ , \ v = 45 \\ w = 5 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 35 \\ w = 5 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 15 \end{array}$



$$\begin{array}{l} w = 5 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 40 \\ w = 5 \ , \ h = 6 \ , \ x = 5 \ , \ y = 0 \ , \ v = 30 \end{array}$$

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

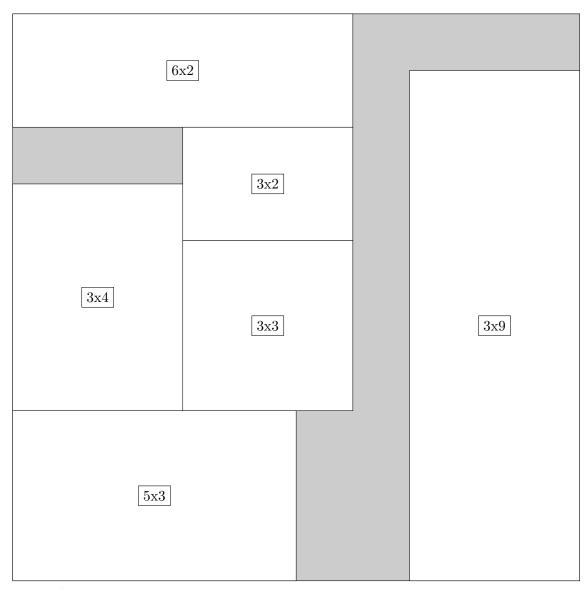
$$\mathbf{w}$$
 =6 , h =2 , x =0 , y =8 , v =12

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

3x2	
5x3	5x5
7x5	3x5

$$\begin{array}{l} w = 7 \;, \; h = 5 \;, \; x = 0 \;, \; y = 0 \;, \; v = 35 \\ w = 5 \;, \; h = 5 \;, \; x = 5 \;, \; y = 5 \;, \; v = 25 \\ w = 5 \;, \; h = 3 \;, \; x = 0 \;, \; y = 5 \;, \; v = 15 \\ w = 3 \;, \; h = 2 \;, \; x = 0 \;, \; y = 8 \;, \; v = 6 \end{array}$$

 $\mathbf{w=}3$, $\mathbf{h=}5$, $\mathbf{x=}7$, $\mathbf{y=}0$, $\mathbf{v=}15$



$$\begin{array}{l} w=3\ ,\ h=9\ ,\ x=7\ ,\ y=0\ ,\ v=27\\ w=5\ ,\ h=3\ ,\ x=0\ ,\ y=0\ ,\ v=15\\ w=6\ ,\ h=2\ ,\ x=0\ ,\ y=8\ ,\ v=12\\ w=3\ ,\ h=4\ ,\ x=0\ ,\ y=3\ ,\ v=12\\ w=3\ ,\ h=3\ ,\ x=3\ ,\ y=3\ ,\ v=9\\ w=3\ ,\ h=2\ ,\ x=3\ ,\ y=6\ ,\ v=6 \end{array}$$