$ClassName: \ Class\_01.2bp\text{-}48$ 

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

TypeNum: <u>67</u> Num: <u>100</u> OutS: <u>3100</u> InS: <u>2986</u> Rate: <u>0.963</u> UB: <u>31</u>

LB:  $\underline{31}$ LBWithCut:  $\underline{31}$ NodeCount:  $\underline{0}$ PrimalNode:  $\underline{0}$ ColumnCount:  $\underline{31}$ TotalCutCount:  $\underline{0}$ RootCutCount:  $\underline{0}$ LPSolverCnt:  $\underline{1}$ 

PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

isOpt: **true** 

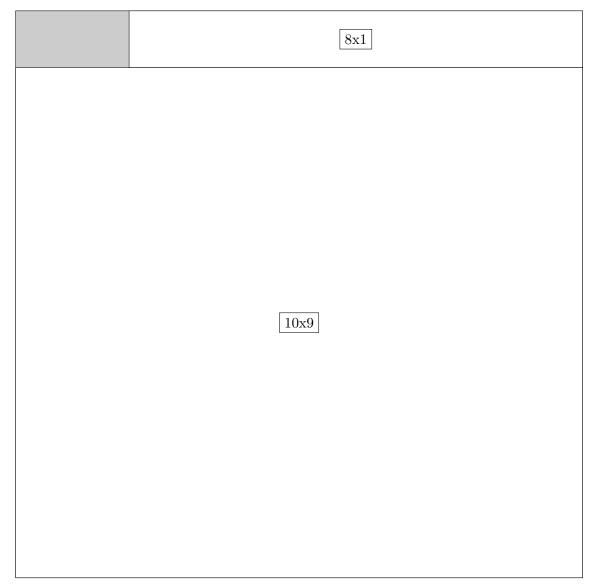
TimeOnPrimal:  $\underline{0.000 \text{ s}}$ TimeOnPricing:  $\underline{0.000 \text{ s}}$ TimeOnRmp:  $\underline{0.078 \text{ s}}$ TotalTime:  $\underline{0.219 \text{ s}}$ 



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

5x2	5x2
	x8

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



2x1	
2x4	8x5
2x5	8x5

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

w = 2, h = 1, x = 0, y = 9, v = 2

	6x3
4x1	
	$9\mathrm{x}7$

$$\begin{array}{l} w = 9 \ , \ h = 7 \ , \ x = 1 \ , \ y = 0 \ , \ v = 63 \\ w = 6 \ , \ h = 3 \ , \ x = 4 \ , \ y = 7 \ , \ v = 18 \\ w = 4 \ , \ h = 1 \ , \ x = 0 \ , \ y = 7 \ , \ v = 4 \end{array}$$

	3x5	$6\mathrm{x}5$
1x5	3x5	6x5

 $\begin{array}{c} w = 6 \ , \, h = 5 \ , \, x = 4 \ , \, y = 0 \ , \, v = 30 \\ w = 3 \ , \, h = 5 \ , \, x = 1 \ , \, y = 0 \ , \, v = 15 \end{array}$ 

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

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

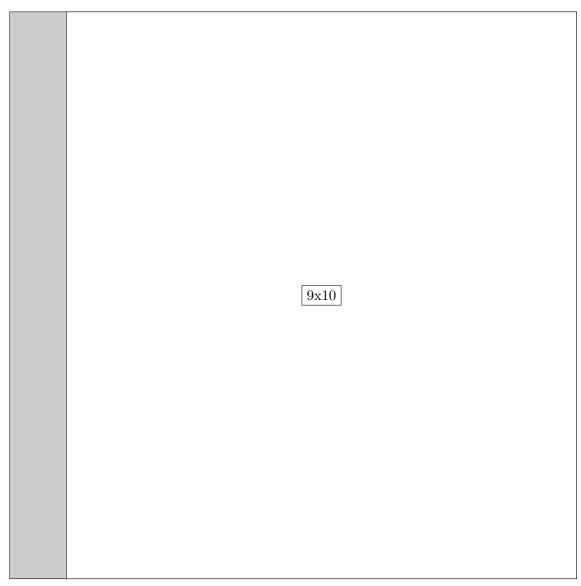
 $\mathbf{w=}3$  ,  $\mathbf{h=}5$  ,  $\mathbf{x=}1$  ,  $\mathbf{y=}5$  ,  $\mathbf{v=}15$ 

	[5x4]	$5\mathrm{x}4$
		6x2
2x6	2x6	6x4

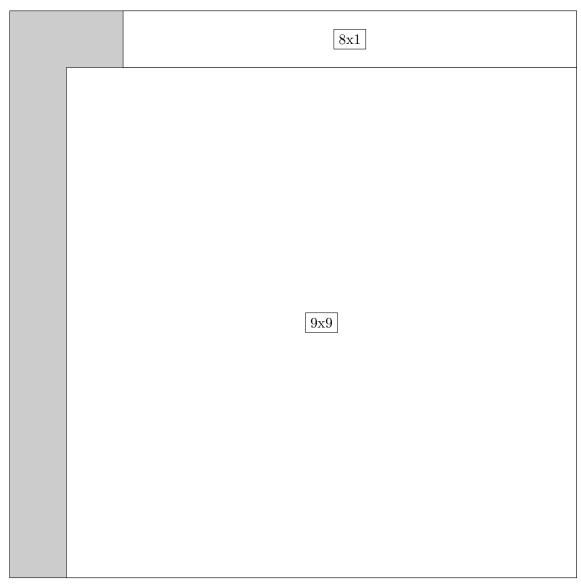
 $\begin{array}{l} w=6\ ,\, h=4\ ,\, x=4\ ,\, y=0\ ,\, v=24\\ w=6\ ,\, h=2\ ,\, x=4\ ,\, y=4\ ,\, v=12\\ w=2\ ,\, h=6\ ,\, x=2\ ,\, y=0\ ,\, v=12\\ w=2\ ,\, h=6\ ,\, x=0\ ,\, y=0\ ,\, v=12\\ w=5\ ,\, h=4\ ,\, x=5\ ,\, y=6\ ,\, v=20\\ w=5\ ,\, h=4\ ,\, x=0\ ,\, y=6\ ,\, v=20\\ \end{array}$ 

9x2
9x2
10x6

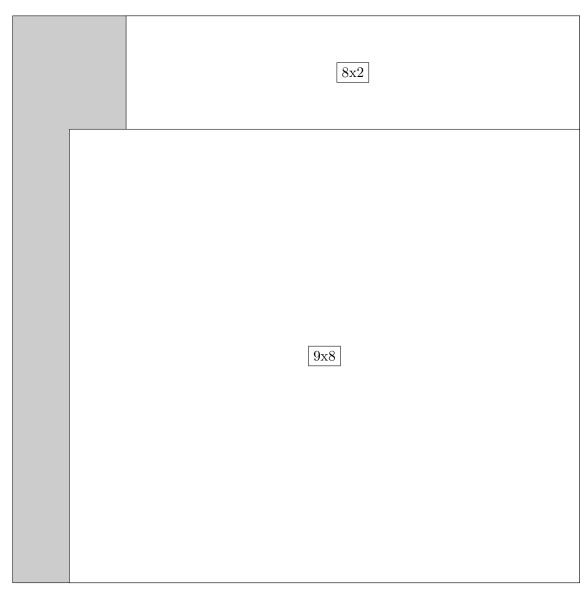
$$\begin{array}{l} w = \! 10 \; , \; h = \! 6 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 60 \\ w = \! 9 \; , \; h = \! 2 \; , \; x = \! 1 \; , \; y = \! 6 \; , \; v = \! 18 \\ w = \! 1 \; , \; h = \! 2 \; , \; x = \! 0 \; , \; y = \! 6 \; , \; v = \! 2 \\ w = \! 9 \; , \; h = \! 2 \; , \; x = \! 1 \; , \; y = \! 8 \; , \; v = \! 18 \end{array}$$



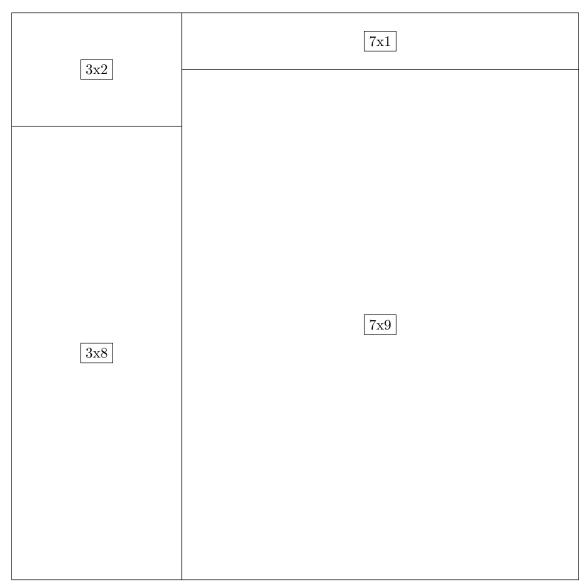
 $\le =9$  , h =10 , x =1 , y =0 , v =90



 $\begin{array}{l} w=6 \ , \ h=3 \ , \ x=4 \ , \ y=0 \ , \ v=18 \\ w=4 \ , \ h=3 \ , \ x=0 \ , \ y=0 \ , \ v=12 \\ w=6 \ , \ h=7 \ , \ x=4 \ , \ y=3 \ , \ v=42 \\ w=3 \ , \ h=6 \ , \ x=1 \ , \ y=3 \ , \ v=18 \\ w=1 \ , \ h=6 \ , \ x=0 \ , \ y=3 \ , \ v=6 \end{array}$ 



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

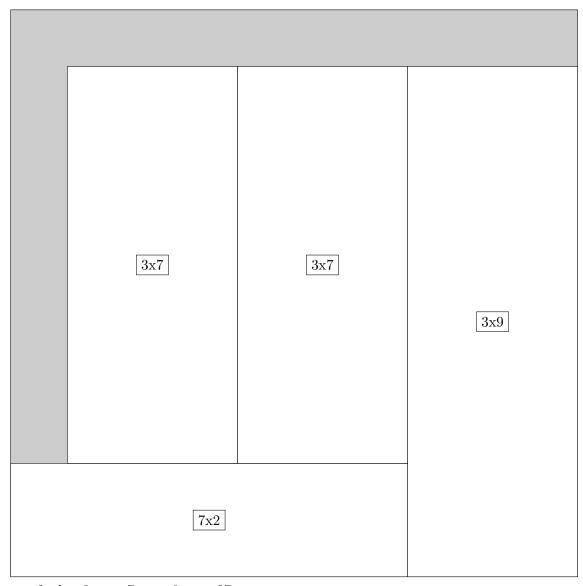


$$\mathbf{w}$$
 =7 ,  $\mathbf{h}$  =9 ,  $\mathbf{x}$  =3 ,  $\mathbf{y}$  =0 ,  $\mathbf{v}$  =63

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

$$\mathbf{w}$$
 =3 , h =8 , x =0 , y =0 , v =24

$$\mathbf{w}$$
 =3 , h =2 , x =0 , y =8 , v =6

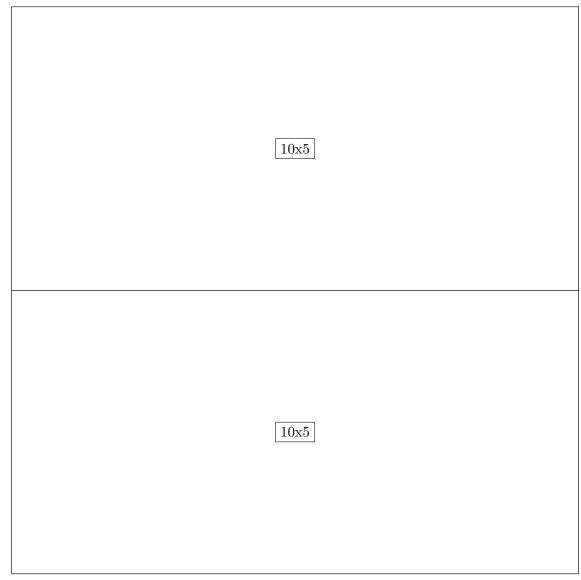


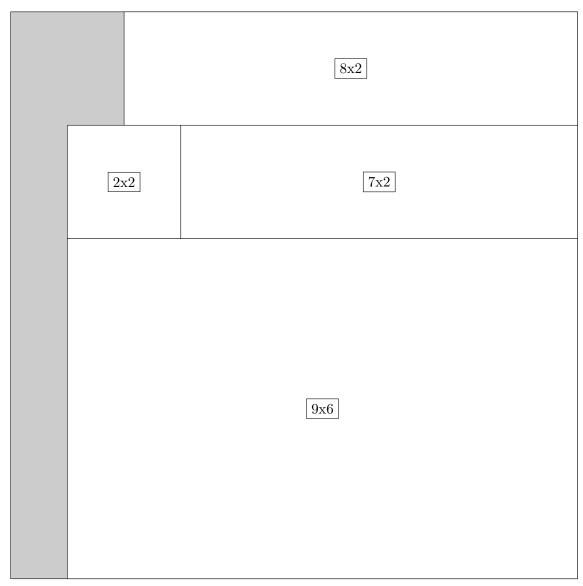
$$\mathbf{w}$$
 =3 , h =9 , x =7 , y =0 , v =27

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

$$w = 3$$
 ,  $h = 7$  ,  $x = 4$  ,  $y = 2$  ,  $v = 21$ 

$$\mathbf{w}$$
 =3 , h =7 , x =1 , y =2 , v =21



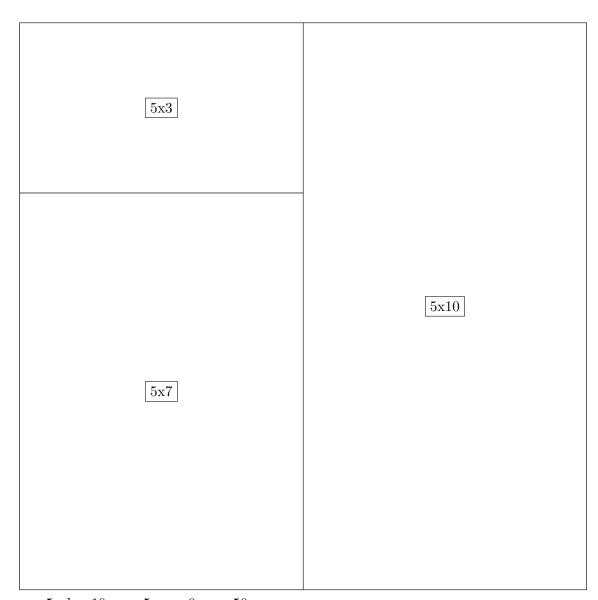


$$w = 9$$
,  $h = 6$ ,  $x = 1$ ,  $y = 0$ ,  $v = 54$ 

$$\mathbf{w}$$
 =7 , h =2 , x =3 , y =6 , v =14

$$w = 2$$
 ,  $h = 2$  ,  $x = 1$  ,  $y = 6$  ,  $v = 4$ 

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



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

$$w = 5$$
,  $h = 3$ ,  $x = 0$ ,  $y = 7$ ,  $v = 15$ 

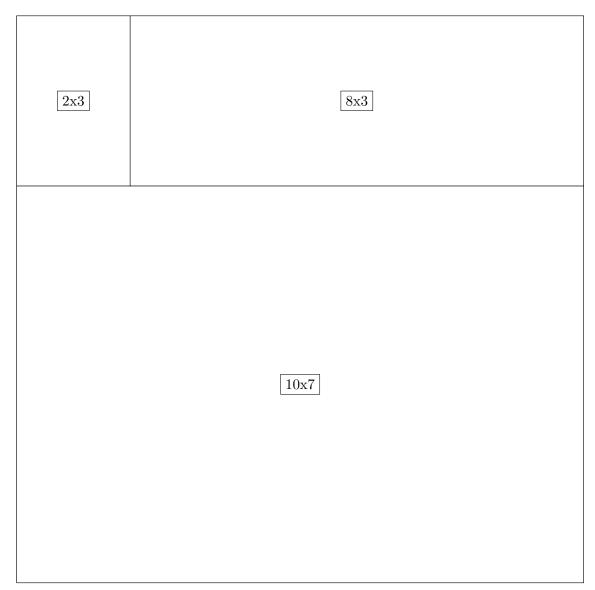
	9x2
	6x1
4x8	6x7

$$w = 6$$
,  $h = 7$ ,  $x = 4$ ,  $y = 0$ ,  $v = 42$ 

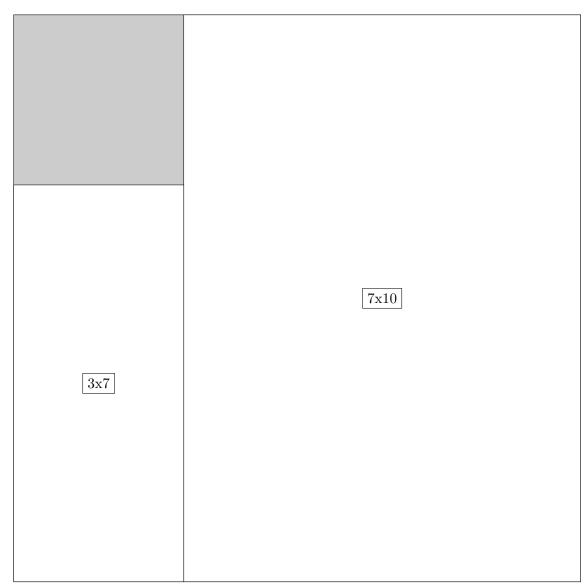
$$\mathbf{w}$$
 =6 , h =1 , x =4 , y =7 , v =6

$$\mathbf{w}$$
 =4 , h =8 , x =0 , y =0 , v =32

$$\mathbf{w}$$
 =9 , h =2 , x =1 , y =8 , v =18



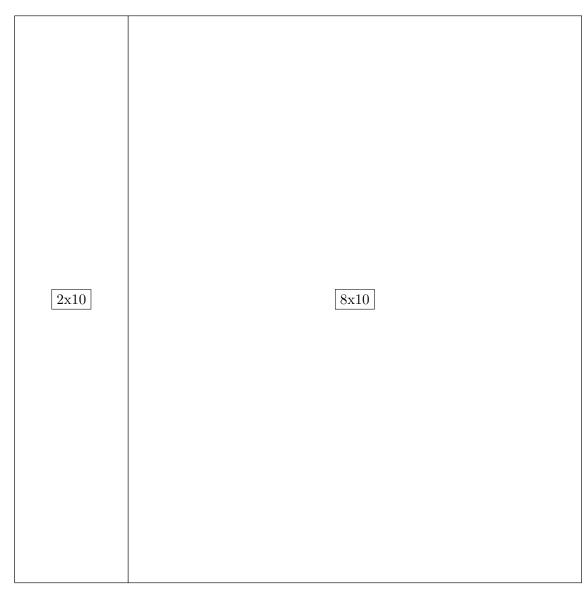
$$\begin{array}{l} w = & 10 \ , \ h = & 7 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 70 \\ w = & 8 \ , \ h = & 3 \ , \ x = & 2 \ , \ y = & 7 \ , \ v = & 24 \\ w = & 2 \ , \ h = & 3 \ , \ x = & 0 \ , \ y = & 7 \ , \ v = & 6 \end{array}$$



w =7, h =10, x =3, y =0, v =70 w =3, h =7, x =0, y =0, v =21

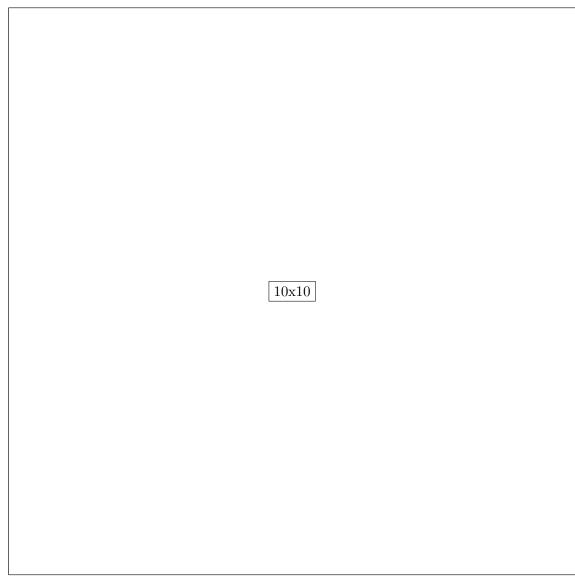
3x4	$7\mathrm{x}4$
4x6	6x6

$$\begin{array}{l} w=6 \ , \ h=6 \ , \ x=4 \ , \ y=0 \ , \ v=36 \\ w=4 \ , \ h=6 \ , \ x=0 \ , \ y=0 \ , \ v=24 \\ w=7 \ , \ h=4 \ , \ x=3 \ , \ y=6 \ , \ v=28 \\ w=3 \ , \ h=4 \ , \ x=0 \ , \ y=6 \ , \ v=12 \end{array}$$



1x1		
1x3	3x4	6x4
	4x6	6x6

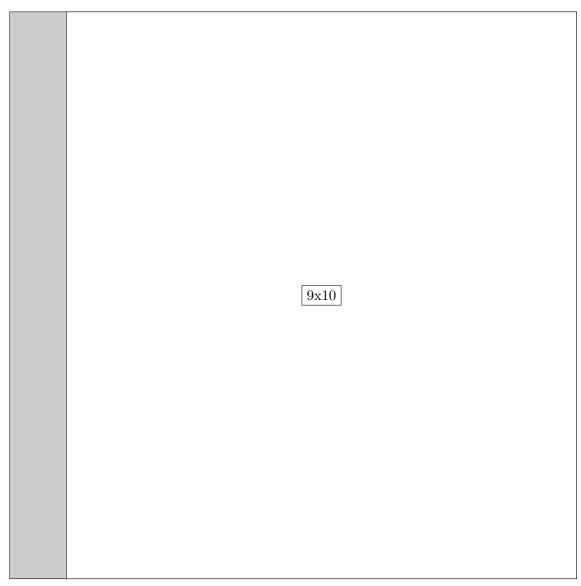
$$\begin{array}{l} w=6 \;,\, h=6 \;,\, x=4 \;,\, y=0 \;,\, v=36 \\ w=4 \;,\, h=6 \;,\, x=0 \;,\, y=0 \;,\, v=24 \\ w=6 \;,\, h=4 \;,\, x=4 \;,\, y=6 \;,\, v=24 \\ w=3 \;,\, h=4 \;,\, x=1 \;,\, y=6 \;,\, v=12 \\ w=1 \;,\, h=3 \;,\, x=0 \;,\, y=6 \;,\, v=3 \\ w=1 \;,\, h=1 \;,\, x=0 \;,\, y=9 \;,\, v=1 \end{array}$$



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

5x2	5x4
5x8	
	5x6

$$\begin{array}{l} w = 5 \ , \, h = 6 \ , \, x = 5 \ , \, y = 0 \ , \, v = 30 \\ w = 5 \ , \, h = 4 \ , \, x = 5 \ , \, y = 6 \ , \, v = 20 \\ w = 5 \ , \, h = 8 \ , \, x = 0 \ , \, y = 0 \ , \, v = 40 \\ w = 5 \ , \, h = 2 \ , \, x = 0 \ , \, y = 8 \ , \, v = 10 \end{array}$$



 $\le =9$  , h =10 , x =1 , y =0 , v =90



	8x1	
2x3		
2x6	2x9	6x9

 $\begin{array}{l} w=6\ ,\, h=9\ ,\, x=4\ ,\, y=0\ ,\, v=54\\ w=2\ ,\, h=9\ ,\, x=2\ ,\, y=0\ ,\, v=18\\ w=2\ ,\, h=6\ ,\, x=0\ ,\, y=0\ ,\, v=12\\ w=2\ ,\, h=3\ ,\, x=0\ ,\, y=6\ ,\, v=6 \end{array}$ 

w = 8, h = 1, x = 2, y = 9, v = 8

6x9	

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

 $\mathbf{w}$  =6 , h =9 , x =0 , y =0 , v = 54

 $w=\!5$  ,  $h=\!1$  ,  $x=\!1$  ,  $y=\!9$  ,  $v=\!5$ 

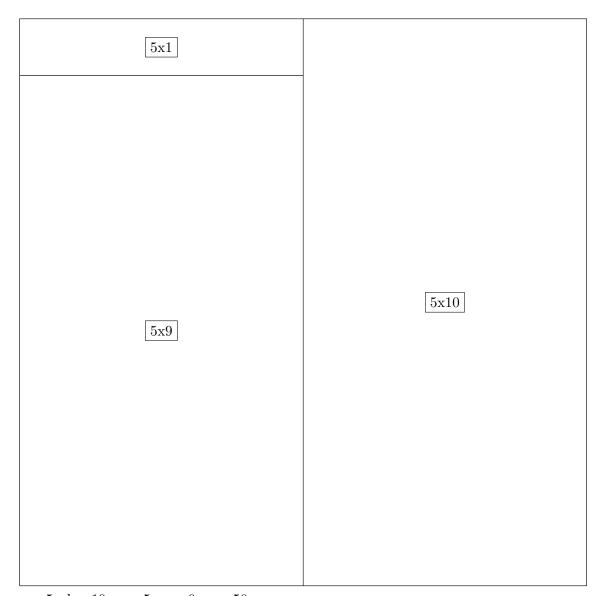
2x2			
2x8	3x10	5x10	

w =5 , h =10 , x =5 , y =0 , v =50

 $\le 3$  , h =10 , x =2 , y =0 , v =30

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

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



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

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