${\bf ClassName:}~{\bf Class\_01.2bp\text{-}40}$ 

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

TypeNum: <u>64</u>
Num: <u>100</u>
OutS: <u>2800</u>
InS: <u>2733</u>
Rate: <u>0.976</u>
UB: <u>28</u>
LB0: <u>28</u>
LB: <u>28</u>

LBWithCut:  $\underline{28}$  NodeCut:  $\underline{0}$ 

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

GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{28}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

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

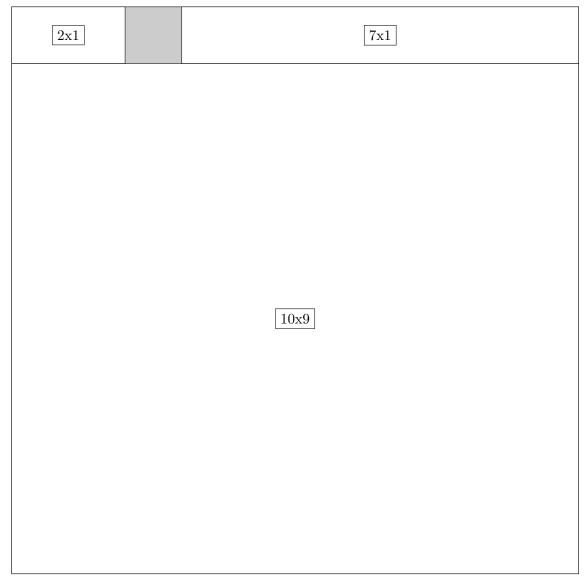
TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.079 sTotalTime: 0.157 s



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



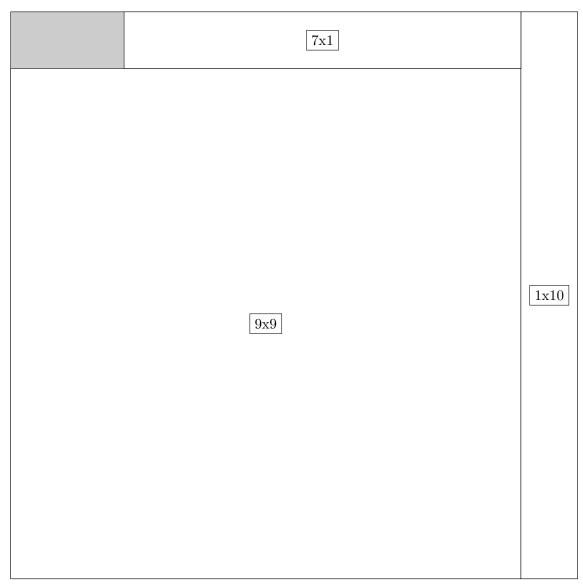
 $\mathbf{w}$  =10 , h =10 , x =0 , y =0 , v =100



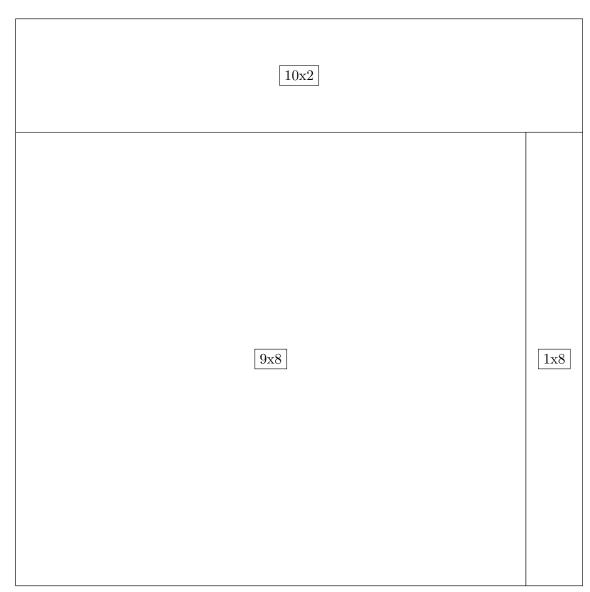
$$\begin{array}{l} w = \! 10 \ , \ h = \! 9 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 90 \\ w = \! 7 \ , \ h = \! 1 \ , \ x = \! 3 \ , \ y = \! 9 \ , \ v = \! 7 \end{array}$$

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

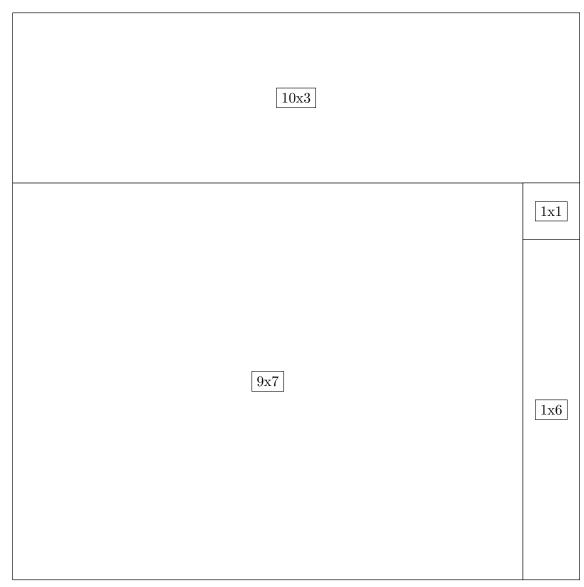
$$w = 2$$
,  $h = 1$ ,  $x = 0$ ,  $y = 9$ ,  $v = 2$ 



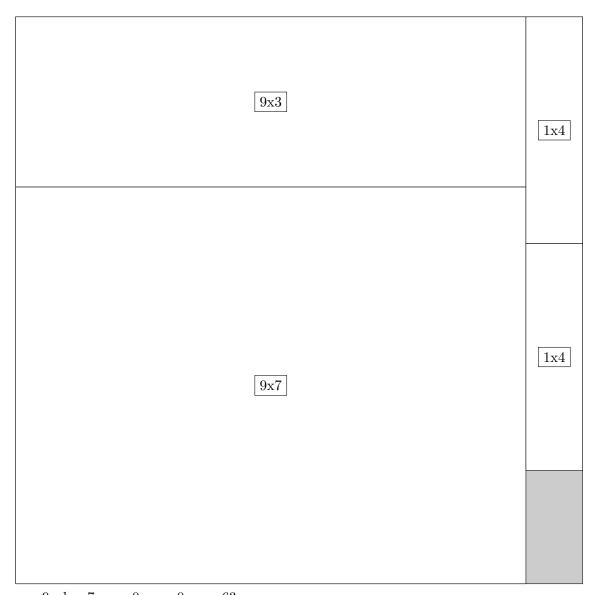
 $\begin{array}{l} w = 9 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 81 \\ w = 1 \ , \ h = 10 \ , \ x = 9 \ , \ y = 0 \ , \ v = 10 \\ w = 7 \ , \ h = 1 \ , \ x = 2 \ , \ y = 9 \ , \ v = 7 \end{array}$ 



$$\begin{array}{l} w = 9 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 72 \\ w = 10 \ , \ h = 2 \ , \ x = 0 \ , \ y = 8 \ , \ v = 20 \\ w = 1 \ , \ h = 8 \ , \ x = 9 \ , \ y = 0 \ , \ v = 8 \end{array}$$



$$\begin{array}{l} w = 9 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 63 \\ w = 10 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 30 \\ w = 1 \ , \ h = 6 \ , \ x = 9 \ , \ y = 0 \ , \ v = 6 \\ w = 1 \ , \ h = 1 \ , \ x = 9 \ , \ y = 6 \ , \ v = 1 \end{array}$$

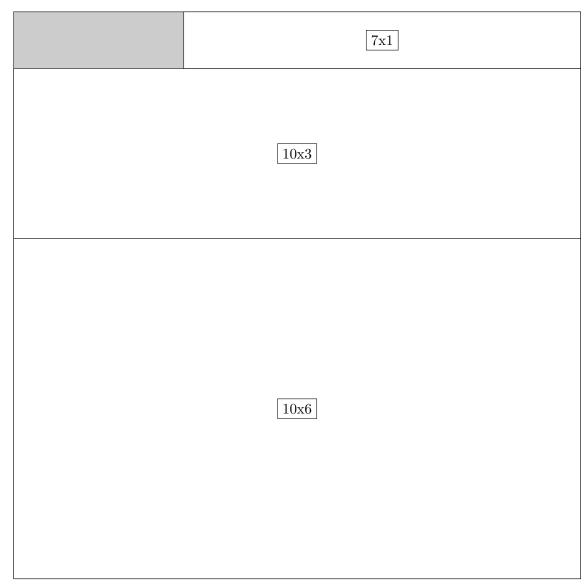


$$\begin{array}{l} w = 9 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 63 \\ w = 9 \ , \ h = 3 \ , \ x = 0 \ , \ y = 7 \ , \ v = 27 \end{array}$$

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

$$\mathbf{w} = \! 1$$
 ,  $\mathbf{h} = \! \! 4$  ,  $\mathbf{x} = \! \! 9$  ,  $\mathbf{y} = \! \! \! 2$  ,  $\mathbf{v} = \! \! \! \! 4$ 

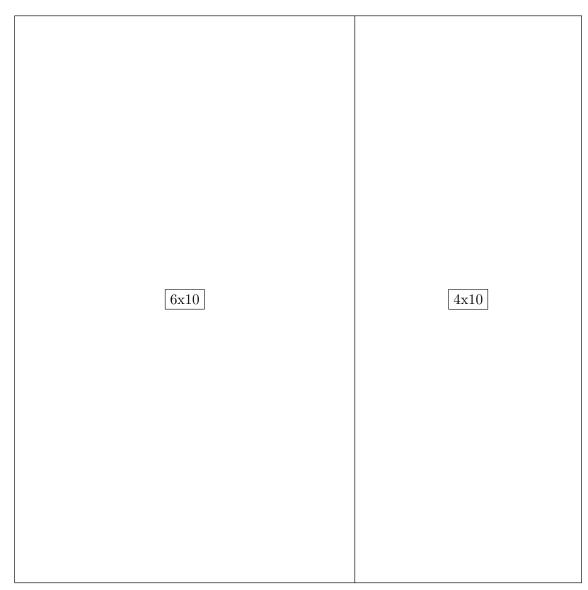




$$\begin{array}{l} w = & 10 \;, \; h = & 6 \;, \; x = & 0 \;, \; y = & 0 \;, \; v = & 60 \\ w = & 10 \;, \; h = & 3 \;, \; x = & 0 \;, \; y = & 6 \;, \; v = & 30 \\ w = & 7 \;, \; h = & 1 \;, \; x = & 3 \;, \; y = & 9 \;, \; v = & 7 \end{array}$$

3x4	$7\mathrm{x}4$	
	10x6	

$$\begin{array}{l} w = & 10 \ , \ h = & 6 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 60 \\ w = & 7 \ , \ h = & 4 \ , \ x = & 3 \ , \ y = & 6 \ , \ v = & 28 \\ w = & 3 \ , \ h = & 4 \ , \ x = & 0 \ , \ y = & 6 \ , \ v = & 12 \end{array}$$



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

9x3	
8x7	2x7

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

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

7x8   3x8	10x2	
	7x8	3x8

$$\begin{array}{l} w = 7 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 56 \\ w = 3 \ , \ h = 8 \ , \ x = 7 \ , \ y = 0 \ , \ v = 24 \\ w = 10 \ , \ h = 2 \ , \ x = 0 \ , \ y = 8 \ , \ v = 20 \end{array}$$

4x4	6x4	
		1x2
	9x6	1x4

$$\begin{array}{l} w=9\ ,\, h=6\ ,\, x=0\ ,\, y=0\ ,\, v=54\\ w=6\ ,\, h=4\ ,\, x=4\ ,\, y=6\ ,\, v=24\\ w=4\ ,\, h=4\ ,\, x=0\ ,\, y=6\ ,\, v=16\\ w=1\ ,\, h=4\ ,\, x=9\ ,\, y=0\ ,\, v=4\\ w=1\ ,\, h=2\ ,\, x=9\ ,\, y=4\ ,\, v=2 \end{array}$$

[4x1]		
	4x	10
6x9		

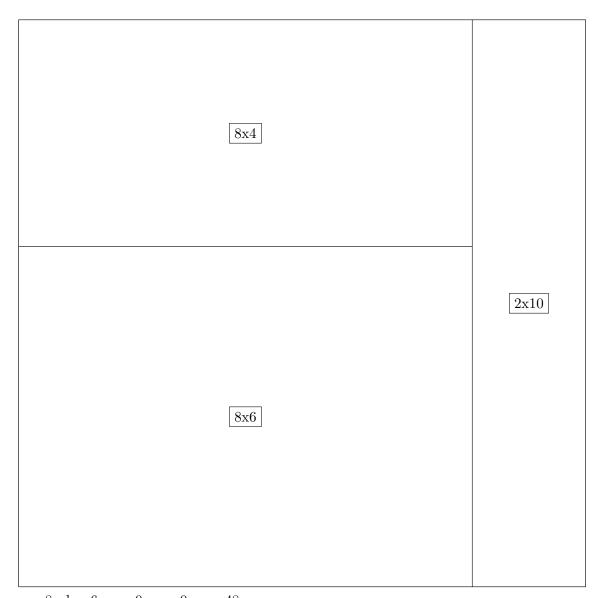
 $\begin{array}{l} w = 6 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 54 \\ w = 4 \ , \ h = 10 \ , \ x = 6 \ , \ y = 0 \ , \ v = 40 \\ w = 4 \ , \ h = 1 \ , \ x = 2 \ , \ y = 9 \ , \ v = 4 \end{array}$ 

10x3	
7x7	3x7

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

10x3	
7x7	3x7

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



$$\le = 8$$
 ,  $h = 4$  ,  $x = 0$  ,  $y = 6$  ,  $v = 32$ 

$$\mathbf{w}$$
 =2 , h =10 , x =8 , y =0 , v =20

2x2		8x2	
		10x2	
	7x6		[3x6]

$$\begin{array}{l} w = 7 \;,\; h = 6 \;,\; x = 0 \;,\; y = 0 \;,\; v = 42 \\ w = 10 \;,\; h = 2 \;,\; x = 0 \;,\; y = 6 \;,\; v = 20 \\ w = 3 \;,\; h = 6 \;,\; x = 7 \;,\; y = 0 \;,\; v = 18 \\ w = 8 \;,\; h = 2 \;,\; x = 2 \;,\; y = 8 \;,\; v = 16 \\ w = 2 \;,\; h = 2 \;,\; x = 0 \;,\; y = 8 \;,\; v = 4 \end{array}$$

	[3x1]
[7x4]	
7x6	[3x9]

$$\mathbf{w}$$
 =7 , h =6 , x =0 , y =0 , v =42

$$\mathbf{w}$$
 =7 , h =4 , x =0 , y =6 , v =28

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

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

[5x1]		
	2x3	3x3
[5x9]		
		5x7

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

$$\mathbf{w}$$
 =5 , h =7 , x =5 , y =0 , v =35

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

$$\mathbf{w}$$
 =2 , h =3 , x =5 , y =7 , v =6

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

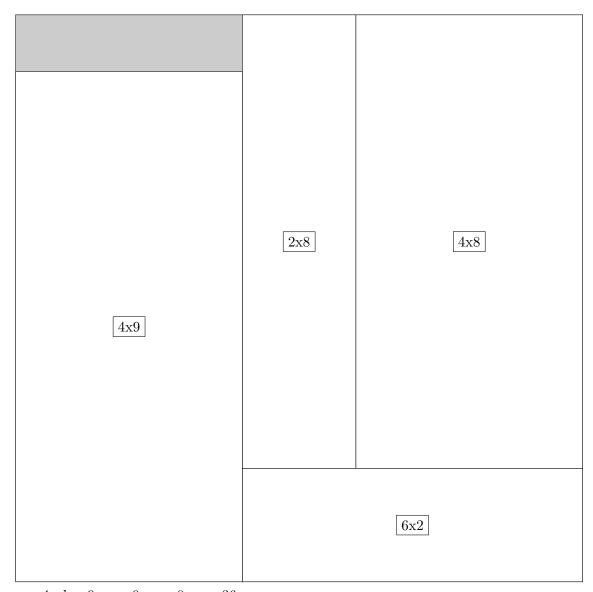
	3x5	3x5
4x9	62	x5

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

 $\mathbf{w}$  =6 , h =5 , x =4 , y =0 , v =30

 $\le =3$  , h = 5 , x = 7 , y = 5 , v = 15

w=3 ,  $h=\!5$  ,  $x=\!4$  ,  $y=\!5$  ,  $v=\!15$ 



 $\begin{array}{l} w = 4 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 36 \\ w = 4 \ , \ h = 8 \ , \ x = 6 \ , \ y = 2 \ , \ v = 32 \end{array}$ 

 $\mathbf{w}$  =2 , h =8 , x =4 , y =2 , v = 16

 $\mathbf{w}$  =6 , h =2 , x =4 , y =0 , v =12

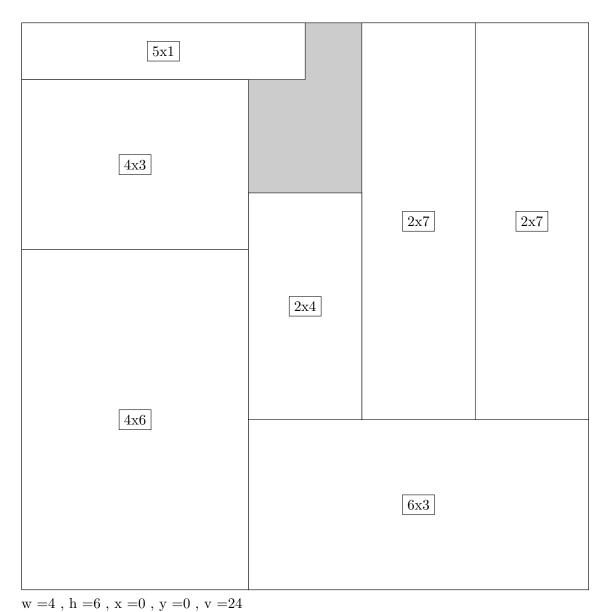
7x5	3x2
	3x3
7x5	3x4

$$w = 7$$
,  $h = 5$ ,  $x = 0$ ,  $y = 0$ ,  $v = 35$ 

$$\le =7$$
 , h =5 , x =0 , y =5 , v =35

$$\mathbf{w}$$
 =3 , h =4 , x =7 , y =0 , v =12

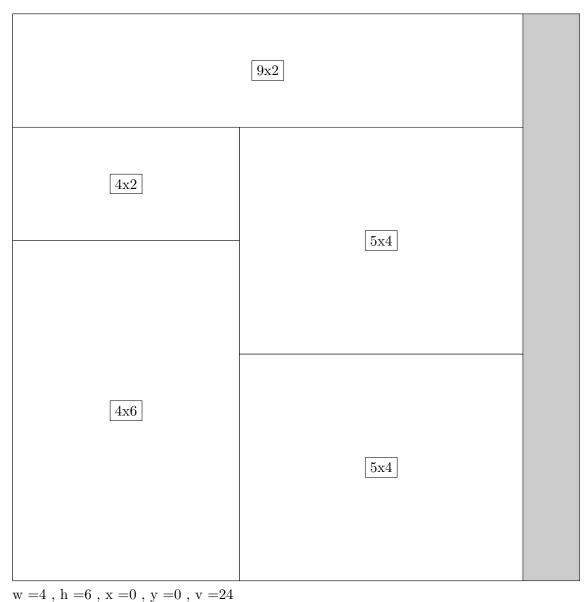
$$w = 3$$
,  $h = 2$ ,  $x = 7$ ,  $y = 7$ ,  $v = 6$ 

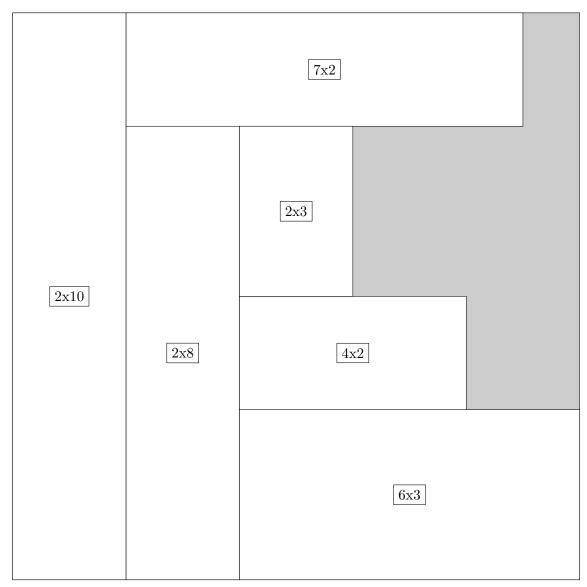


$$\begin{array}{l} w=6 \ , \ h=3 \ , \ x=4 \ , \ y=0 \ , \ v=18 \\ w=2 \ , \ h=7 \ , \ x=8 \ , \ y=3 \ , \ v=14 \\ w=2 \ , \ h=7 \ , \ x=6 \ , \ y=3 \ , \ v=14 \\ w=4 \ , \ h=3 \ , \ x=0 \ , \ y=6 \ , \ v=12 \end{array}$$

w = 2, h = 4, x = 4, y = 3, v = 8

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





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

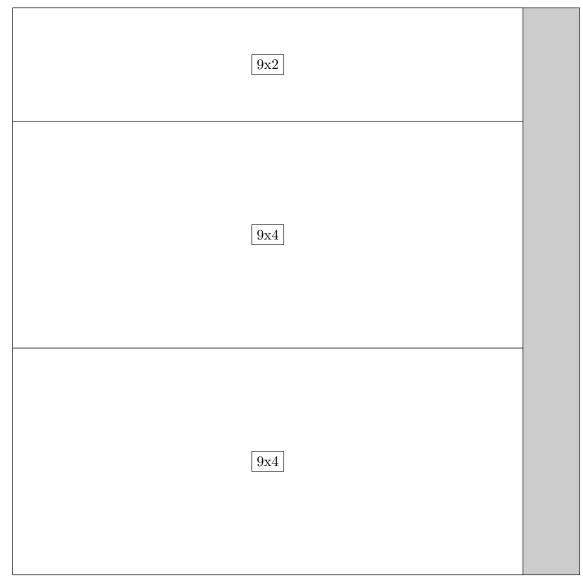
$$\le =2$$
 , h =8 , x =2 , y =0 , v =  
16

$$w = 6$$
,  $h = 3$ ,  $x = 4$ ,  $y = 0$ ,  $v = 18$ 

$$\mathbf{w}$$
 =7 , h =2 , x =2 , y =8 , v =14

$$\mathbf{w}=\!\!4$$
 ,  $\mathbf{h}=\!\!2$  ,  $\mathbf{x}=\!\!4$  ,  $\mathbf{y}=\!\!3$  ,  $\mathbf{v}=\!\!8$ 

$$\le =2$$
 , h =3 , x =4 , y =5 , v =6



$$\begin{array}{l} w = 9 \ , \, h = \! 4 \ , \, x = \! 0 \ , \, y = \! 0 \ , \, v = \! 36 \\ w = \! 9 \ , \, h = \! 4 \ , \, x = \! 0 \ , \, y = \! 4 \ , \, v = \! 36 \\ w = \! 9 \ , \, h = \! 2 \ , \, x = \! 0 \ , \, y = \! 8 \ , \, v = \! 18 \end{array}$$