$ClassName: \ Class_01.2bp\text{-}42$

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

TypeNum: <u>60</u>
Num: <u>100</u>
OutS: <u>2900</u>
InS: <u>2668</u>
Rate: <u>0.920</u>
UB: <u>29</u>
LB0: <u>29</u>
LB: <u>29</u>

LBWithCut: $\underline{\mathbf{29}}$ NodeCut: $\underline{\mathbf{0}}$

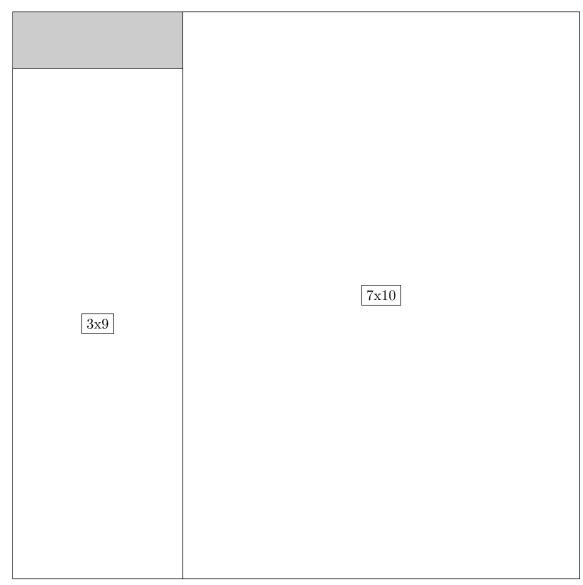
ExtendedNodeCnt: $\underline{\mathbf{1}}$

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{29}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

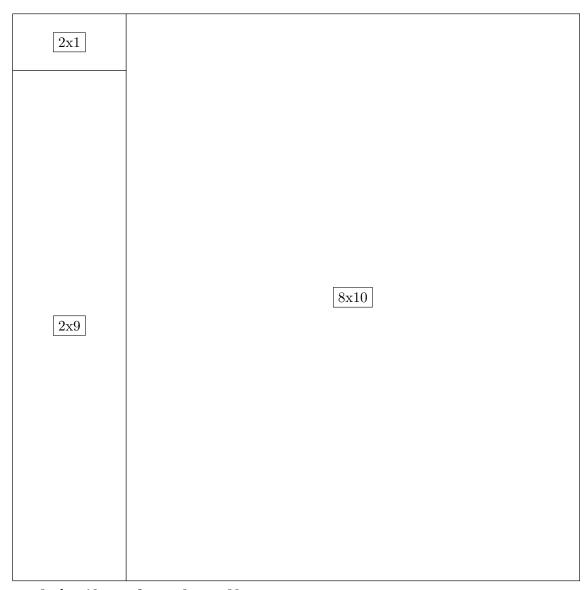
isOpt: $\underline{\mathbf{true}}$

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

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.063 sTotalTime: 600.313 s

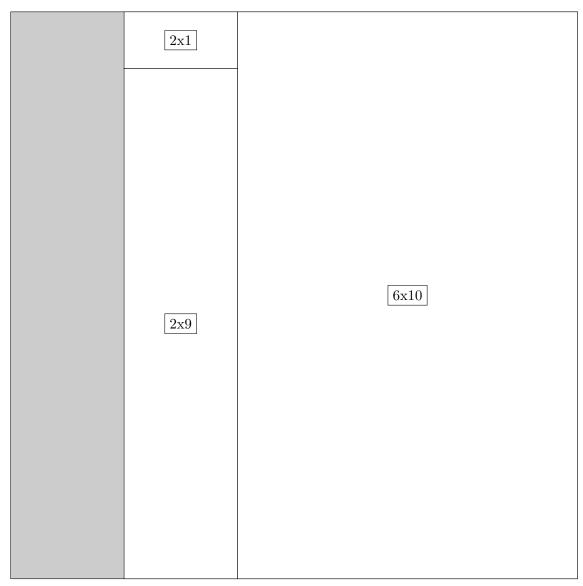


w =7, h =10, x =3, y =0, v =70 w =3, h =9, x =0, y =0, v =27



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

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



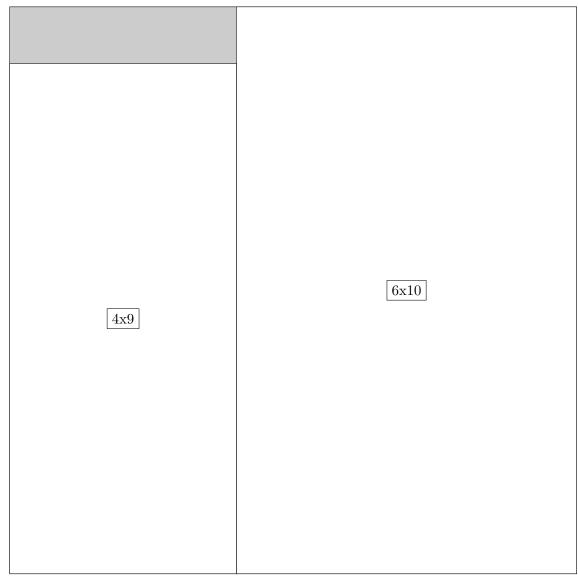
 \mathbf{w} =6 , h =10 , x =4 , y =0 , v =60

 \mathbf{w} =2 , h =9 , x =2 , y =0 , v =18

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

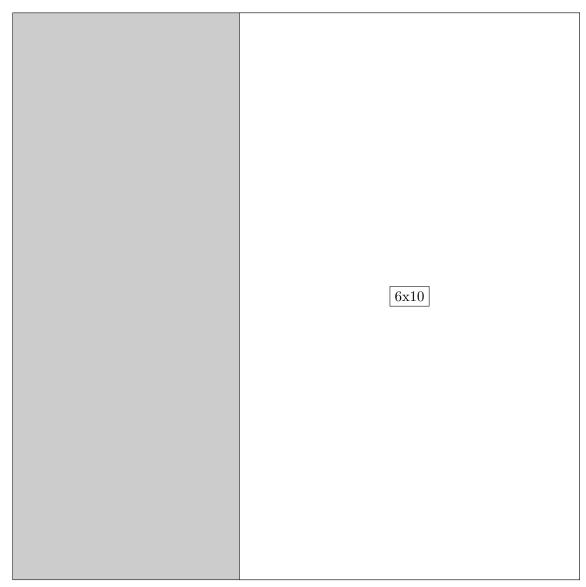
$10\mathrm{x}1$		
	10x1	
3x3	[7x3]	
	10x5	

$$\begin{array}{l} w = 10 \; , \; h = 5 \; , \; x = 0 \; , \; y = 0 \; , \; v = 50 \\ w = 7 \; , \; h = 3 \; , \; x = 3 \; , \; y = 5 \; , \; v = 21 \\ w = 3 \; , \; h = 3 \; , \; x = 0 \; , \; y = 5 \; , \; v = 9 \\ w = 10 \; , \; h = 1 \; , \; x = 0 \; , \; y = 8 \; , \; v = 10 \\ w = 10 \; , \; h = 1 \; , \; x = 0 \; , \; y = 9 \; , \; v = 10 \end{array}$$



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

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



 $\le =6$, h =10 , x =4 , y =0 , v =60





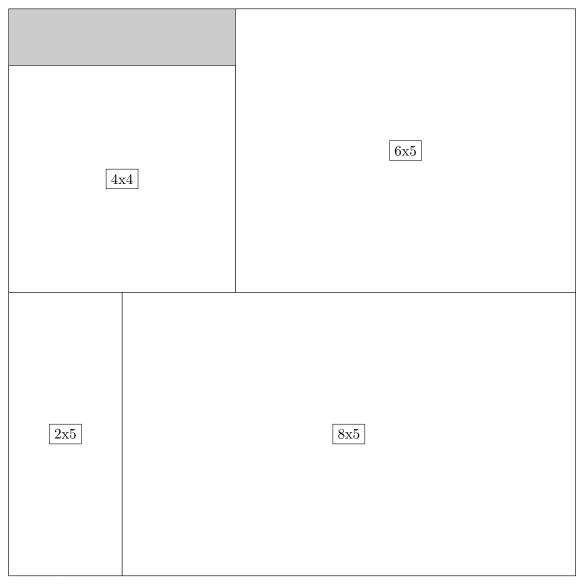


$5\mathrm{x}4$	$5\mathrm{x}4$
5x6	5x6

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

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

 $\mathbf{w}=\!5$, $\mathbf{h}=\!\!4$, $\mathbf{x}=\!\!0$, $\mathbf{y}=\!\!6$, $\mathbf{v}=\!\!20$



 $\begin{array}{l} w=8 \ , \ h=5 \ , \ x=2 \ , \ y=0 \ , \ v=40 \\ w=2 \ , \ h=5 \ , \ x=0 \ , \ y=0 \ , \ v=10 \\ w=6 \ , \ h=5 \ , \ x=4 \ , \ y=5 \ , \ v=30 \\ w=4 \ , \ h=4 \ , \ x=0 \ , \ y=5 \ , \ v=16 \end{array}$

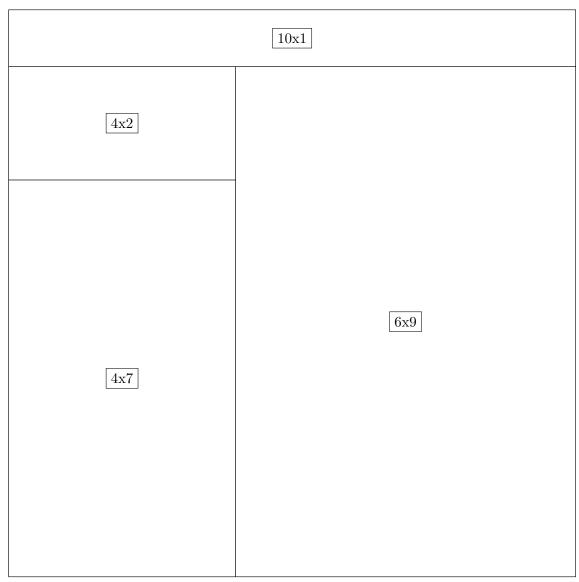
	6x1
	7x1
[1x8]	9x8

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

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

$$\mathbf{w}$$
 =7 , h =1 , x =3 , y =8 , v =7

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



$$\begin{array}{l} w=6\ ,\ h=9\ ,\ x=4\ ,\ y=0\ ,\ v=54\\ w=4\ ,\ h=7\ ,\ x=0\ ,\ y=0\ ,\ v=28\\ w=4\ ,\ h=2\ ,\ x=0\ ,\ y=7\ ,\ v=8\\ w=10\ ,\ h=1\ ,\ x=0\ ,\ y=9\ ,\ v=10 \end{array}$$

	9x1
[1x3]	
1x6	9x9

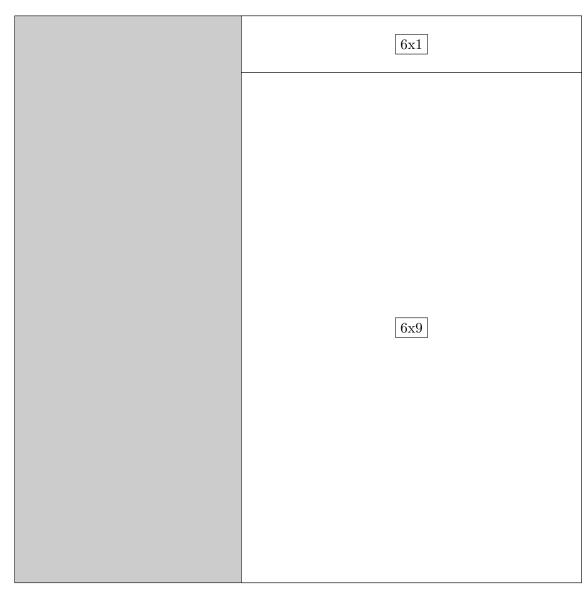
$$\begin{array}{l} w = 9 \ , \, h = 9 \ , \, x = 1 \ , \, y = 0 \ , \, v = 81 \\ w = 9 \ , \, h = 1 \ , \, x = 1 \ , \, y = 9 \ , \, v = 9 \end{array}$$

$$\mathbf{w}$$
 =1 , h =6 , x =0 , y =0 , v =6

$$\mathbf{w}$$
 =1 , h =3 , x =0 , y =6 , v =3

1x2 1x2	- 1x4	$6\mathrm{x}4$
3x8		7x6

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



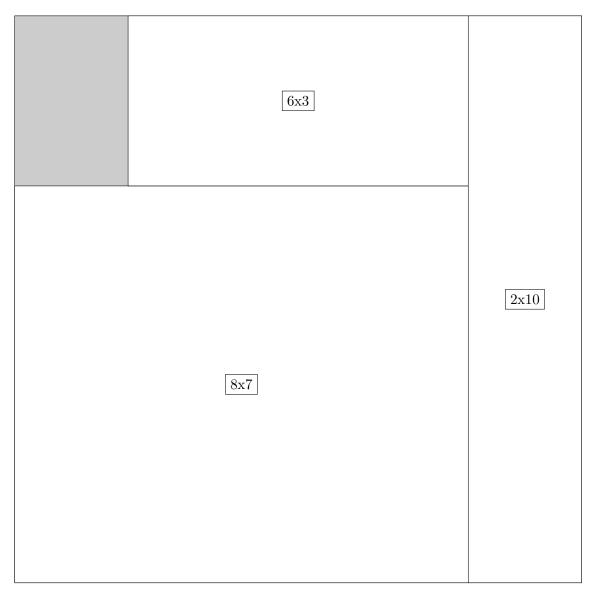
w =6, h =9, x =4, y =0, v =54 w =6, h =1, x =4, y =9, v =6

	[7x1]
	8x1
2x8	8x8

 $\begin{array}{l} w=8 \ , \ h=8 \ , \ x=2 \ , \ y=0 \ , \ v=64 \\ w=2 \ , \ h=8 \ , \ x=0 \ , \ y=0 \ , \ v=16 \\ w=8 \ , \ h=1 \ , \ x=2 \ , \ y=8 \ , \ v=8 \\ w=7 \ , \ h=1 \ , \ x=3 \ , \ y=9 \ , \ v=7 \end{array}$

		8x1
42	x2	
42	×7	6x9

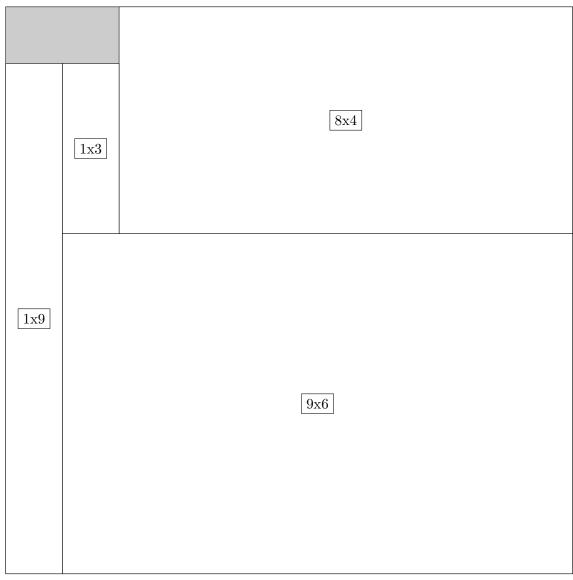
$$\begin{array}{l} w=6\ ,\, h=9\ ,\, x=4\ ,\, y=0\ ,\, v=54\\ w=4\ ,\, h=7\ ,\, x=0\ ,\, y=0\ ,\, v=28\\ w=4\ ,\, h=2\ ,\, x=0\ ,\, y=7\ ,\, v=8\\ w=8\ ,\, h=1\ ,\, x=2\ ,\, y=9\ ,\, v=8 \end{array}$$



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

 $\le =8$, h =7 , x =0 , y =0 , v = 56

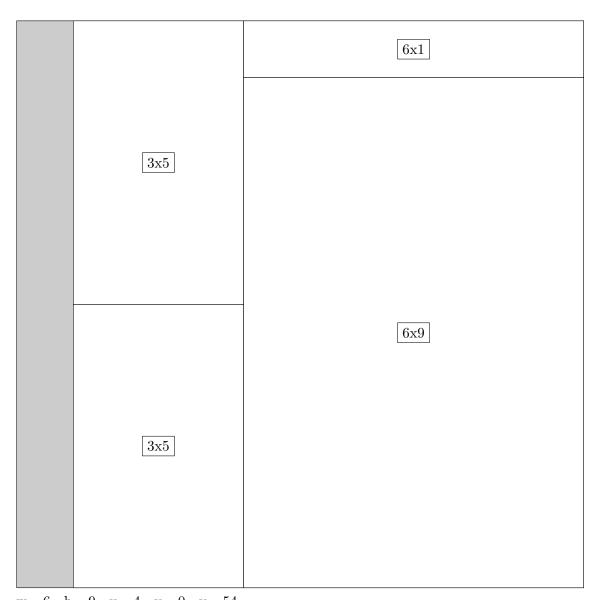
 \mathbf{w} =6 , h =3 , x =2 , y =7 , v =18



 $\begin{array}{l} w=9 \ , \ h=6 \ , \ x=1 \ , \ y=0 \ , \ v=54 \\ w=8 \ , \ h=4 \ , \ x=2 \ , \ y=6 \ , \ v=32 \\ w=1 \ , \ h=3 \ , \ x=1 \ , \ y=6 \ , \ v=3 \\ w=1 \ , \ h=9 \ , \ x=0 \ , \ y=0 \ , \ v=9 \end{array}$

		8x3
1x2	1x2	
3x5		7x7

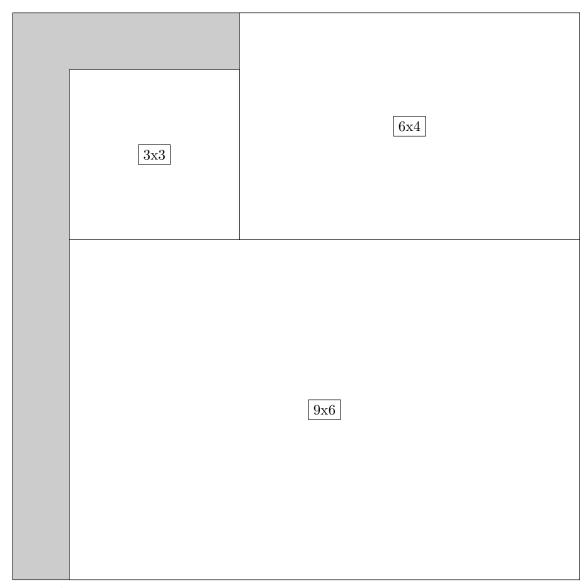
$$\begin{array}{l} w=7\ ,\, h=7\ ,\, x=3\ ,\, y=0\ ,\, v=49\\ w=3\ ,\, h=5\ ,\, x=0\ ,\, y=0\ ,\, v=15\\ w=1\ ,\, h=2\ ,\, x=2\ ,\, y=5\ ,\, v=2\\ w=1\ ,\, h=2\ ,\, x=1\ ,\, y=5\ ,\, v=2\\ w=8\ ,\, h=3\ ,\, x=2\ ,\, y=7\ ,\, v=24\\ \end{array}$$



w =6, h =9, x =4, y =0, v =54 w =6, h =1, x =4, y =9, v =6

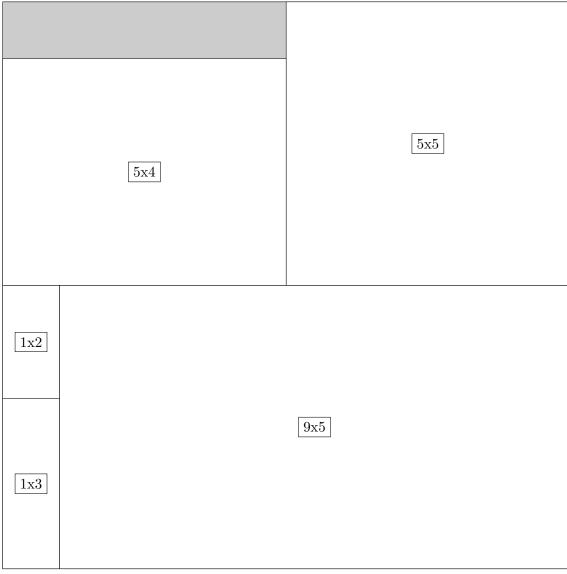
 \mathbf{w} =3 , h =5 , x =1 , y =0 , v = 15

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



[5x1]	
[5x3]	5x4
4x6	6x6

$$\begin{array}{l} w=6 \ , \ h=6 \ , \ x=4 \ , \ y=0 \ , \ v=36 \\ w=4 \ , \ h=6 \ , \ x=0 \ , \ y=0 \ , \ v=24 \\ w=5 \ , \ h=4 \ , \ x=5 \ , \ y=6 \ , \ v=20 \\ w=5 \ , \ h=3 \ , \ x=0 \ , \ y=6 \ , \ v=15 \\ w=5 \ , \ h=1 \ , \ x=0 \ , \ y=9 \ , \ v=5 \end{array}$$



$$\begin{array}{l} w = 9 \ , \ h = 5 \ , \ x = 1 \ , \ y = 0 \ , \ v = 45 \\ w = 1 \ , \ h = 3 \ , \ x = 0 \ , \ y = 0 \ , \ v = 3 \\ w = 1 \ , \ h = 2 \ , \ x = 0 \ , \ y = 3 \ , \ v = 2 \\ w = 5 \ , \ h = 5 \ , \ x = 5 \ , \ y = 5 \ , \ v = 25 \\ w = 5 \ , \ h = 4 \ , \ x = 0 \ , \ y = 5 \ , \ v = 20 \end{array}$$

	[5x2]
[5x8]	[5x8]

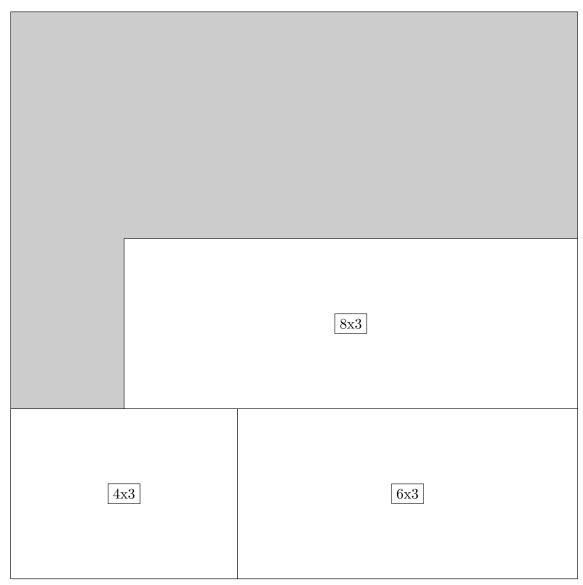
w=5 , h=8 , x=5 , y=0 , v=40

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

 \mathbf{w} =5 , h =8 , x =0 , y =0 , v =40

	8x3
5x2	
5x5	5x7

$$\begin{array}{l} w = 5 \ , \ h = 7 \ , \ x = 5 \ , \ y = 0 \ , \ v = 35 \\ w = 5 \ , \ h = 5 \ , \ x = 0 \ , \ y = 0 \ , \ v = 25 \\ w = 5 \ , \ h = 2 \ , \ x = 0 \ , \ y = 5 \ , \ v = 10 \\ w = 8 \ , \ h = 3 \ , \ x = 2 \ , \ y = 7 \ , \ v = 24 \end{array}$$



 \mathbf{w} =6 , h =3 , x =4 , y =0 , v =18 w =4 , h =3 , x =0 , y =0 , v =12 w =8 , h =3 , x =2 , y =3 , v =24