${\bf ClassName:}~{\bf Class\_01.2bp\text{-}22}$ 

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

TypeNum: <u>44</u>
Num: <u>60</u>
OutS: <u>2100</u>
InS: <u>1817</u>
Rate: <u>0.865</u>
UB: <u>21</u>

LB0: **21** LB: **21** 

LBWithCut:  $\underline{\mathbf{21}}$ NodeCut:  $\underline{\mathbf{0}}$ 

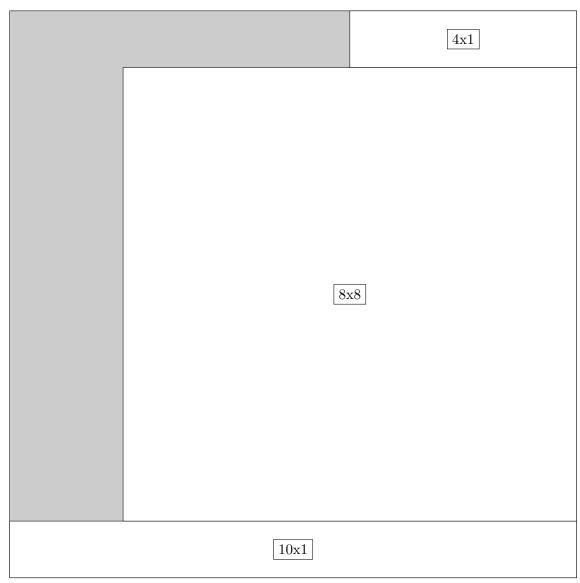
ExtendedNodeCnt:  $\underline{\mathbf{1}}$ 

GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{21}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

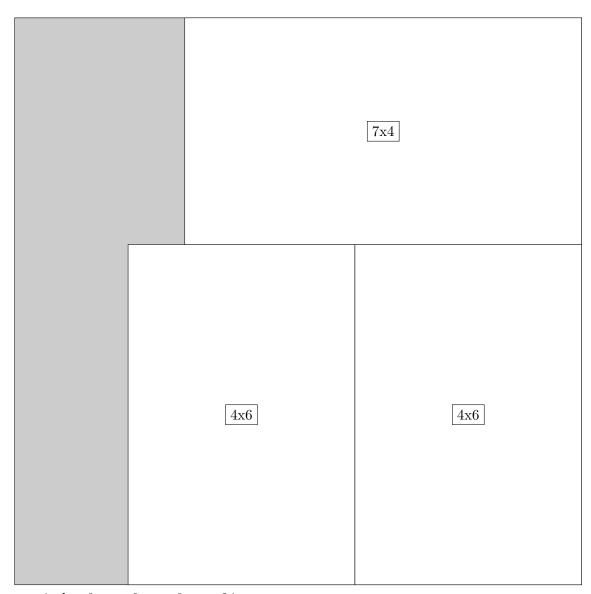
isOpt:  $\underline{\mathbf{true}}$ 

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

TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 600.328 s



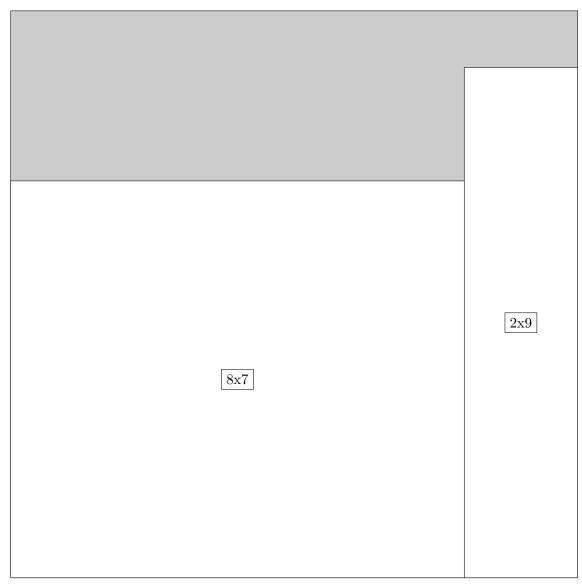
$$\begin{array}{l} w = \! 10 \ , \ h = \! 1 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 10 \\ w = \! 8 \ , \ h = \! 8 \ , \ x = \! 2 \ , \ y = \! 1 \ , \ v = \! 64 \\ w = \! 4 \ , \ h = \! 1 \ , \ x = \! 6 \ , \ y = \! 9 \ , \ v = \! 4 \end{array}$$

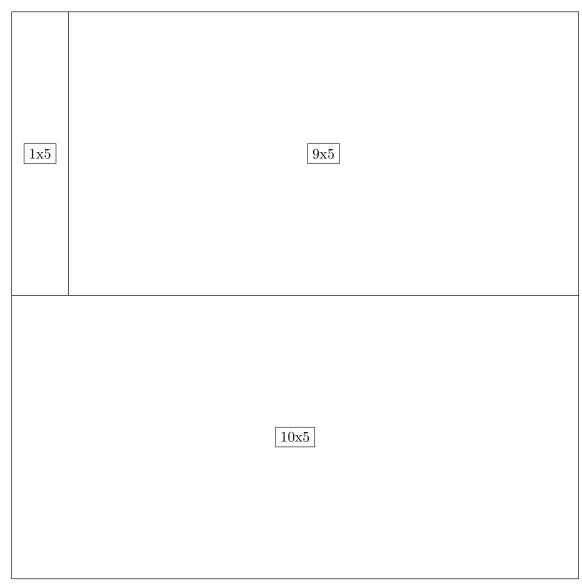


 $\mathbf{w}$  =4 , h =6 , x =6 , y =0 , v =24

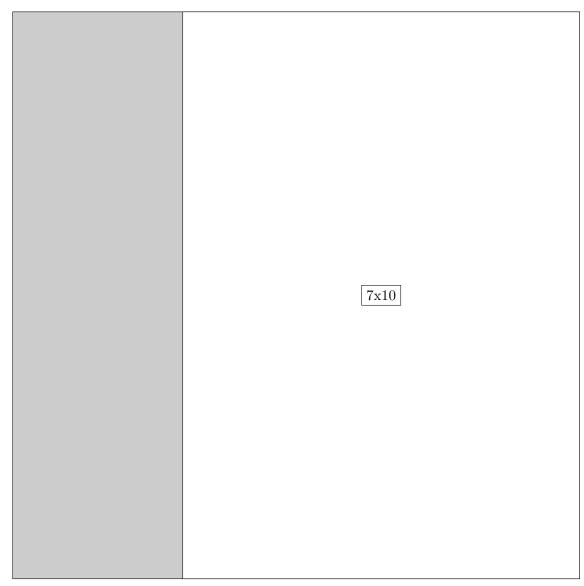
 $\mathbf{w}$  =4 , h =6 , x =2 , y =0 , v =24

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

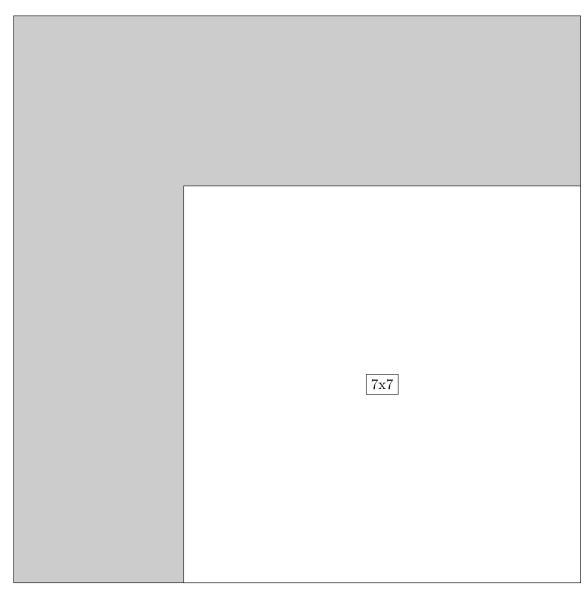




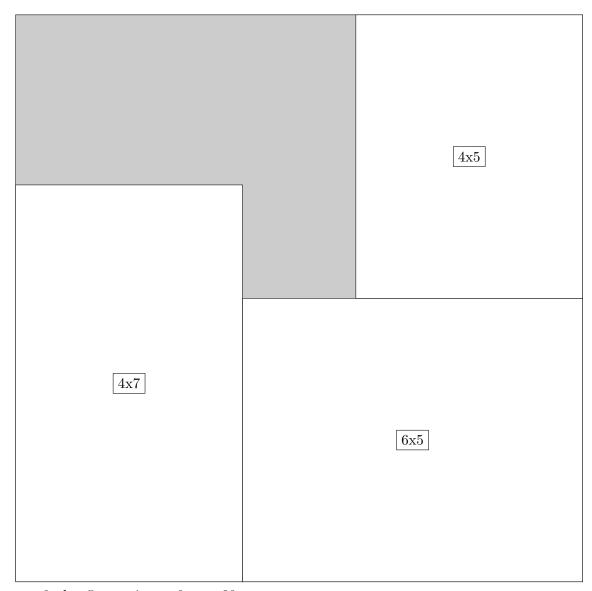
$$\begin{array}{l} w = \! 10 \ , \ h = \! 5 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 50 \\ w = \! 9 \ , \ h = \! 5 \ , \ x = \! 1 \ , \ y = \! 5 \ , \ v = \! 45 \\ w = \! 1 \ , \ h = \! 5 \ , \ x = \! 0 \ , \ y = \! 5 \ , \ v = \! 5 \end{array}$$



 $\le =7$  , h =10 , x =3 , y =0 , v =70



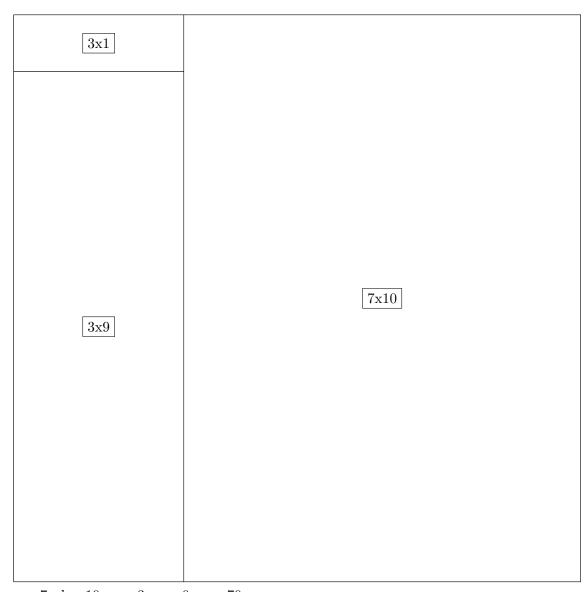
 $\mathbf{w}$  =7 , h =7 , x =3 , y =0 , v =49



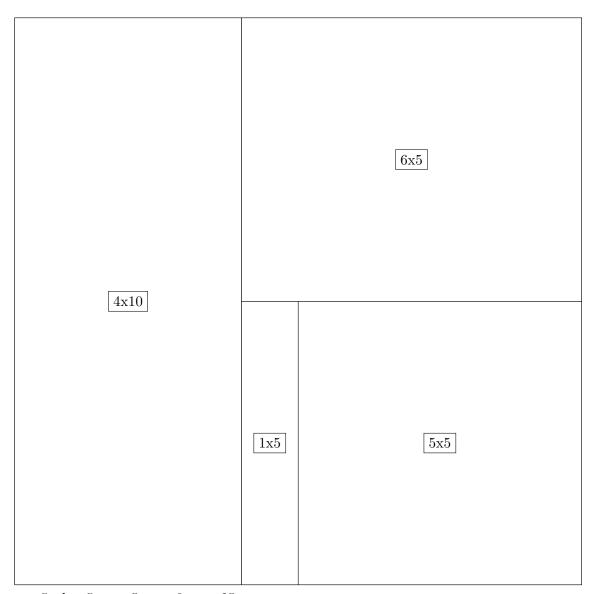
 $\mathbf{w}$  =6 , h =5 , x =4 , y =0 , v =30

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

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



$$\begin{array}{l} w = 7 \ , \ h = 10 \ , \ x = 3 \ , \ y = 0 \ , \ v = 70 \\ w = 3 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 27 \\ w = 3 \ , \ h = 1 \ , \ x = 0 \ , \ y = 9 \ , \ v = 3 \end{array}$$

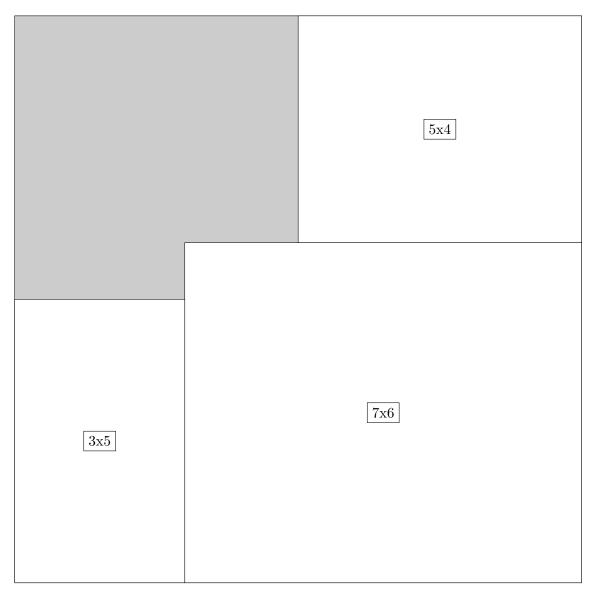


w =5 , h =5 , x =5 , y =0 , v = 25

 $\mathbf{w}$  =1 , h =5 , x =4 , y =0 , v =5

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

 $\mathbf{w}=\!\!4$  ,  $\mathbf{h}=\!\!10$  ,  $\mathbf{x}=\!\!0$  ,  $\mathbf{y}=\!\!0$  ,  $\mathbf{v}=\!\!40$ 



 $\begin{array}{l} w = 7 \ , \ h = 6 \ , \ x = 3 \ , \ y = 0 \ , \ v = 42 \\ w = 5 \ , \ h = 4 \ , \ x = 5 \ , \ y = 6 \ , \ v = 20 \\ w = 3 \ , \ h = 5 \ , \ x = 0 \ , \ y = 0 \ , \ v = 15 \end{array}$ 

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

4x3	1x4	3x4
6x7		4x6

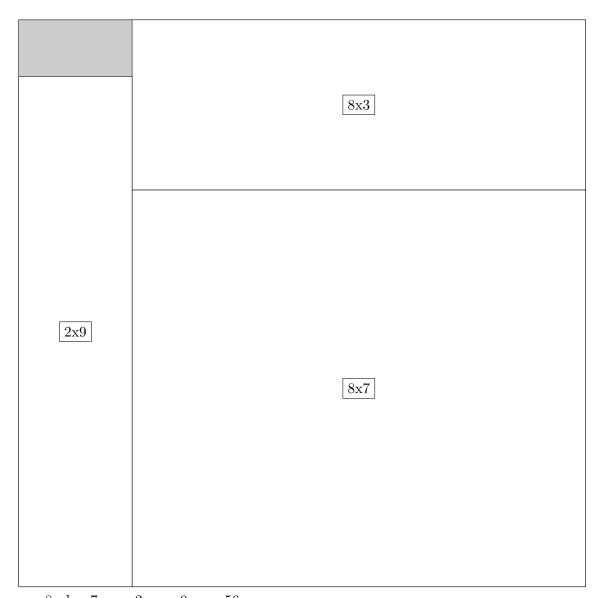
 $\mathbf{w}$  =4 , h =6 , x =6 , y =0 , v =24

 $\le =3$  , h =4 , x =7 , y =6 , v =12

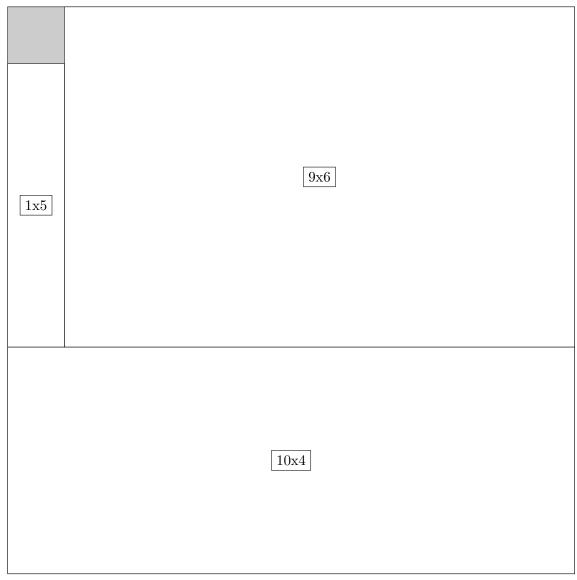
 $\mathbf{w}$  =1 , h =4 , x =6 , y =6 , v =4

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

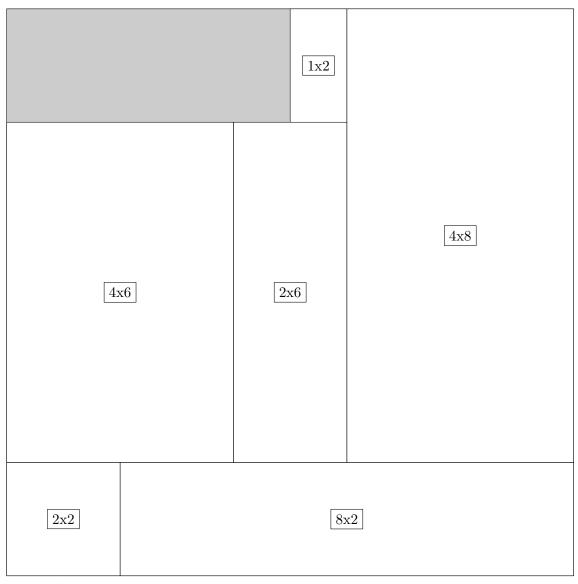
w = 4, h = 3, x = 2, y = 7, v = 12



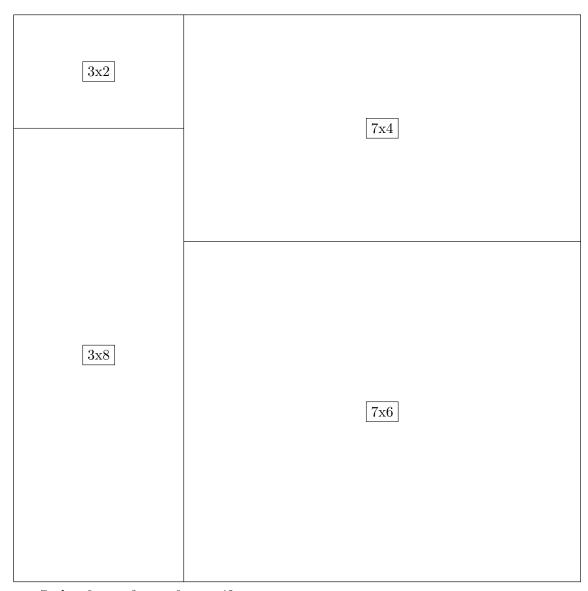
 $\begin{array}{l} w = 8 \ , \ h = 7 \ , \ x = 2 \ , \ y = 0 \ , \ v = 56 \\ w = 8 \ , \ h = 3 \ , \ x = 2 \ , \ y = 7 \ , \ v = 24 \\ w = 2 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 18 \end{array}$ 



$$\begin{array}{l} w = \! 10 \ , \ h = \! 4 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 40 \\ w = \! 9 \ , \ h = \! 6 \ , \ x = \! 1 \ , \ y = \! 4 \ , \ v = \! 54 \\ w = \! 1 \ , \ h = \! 5 \ , \ x = \! 0 \ , \ y = \! 4 \ , \ v = \! 5 \end{array}$$



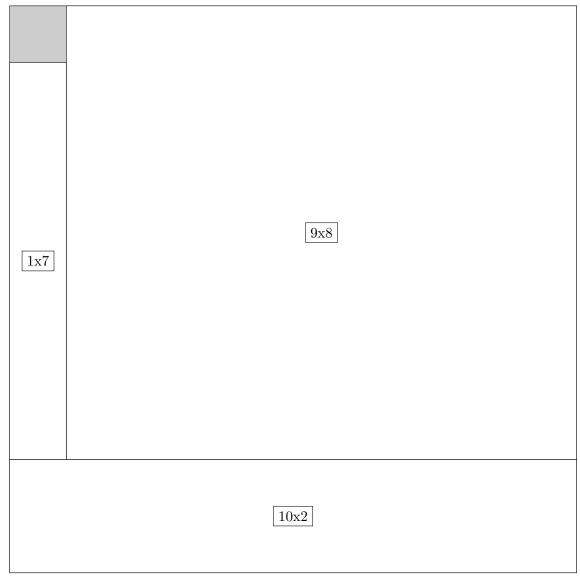
$$\begin{array}{l} w=8 \;,\, h=2 \;,\, x=2 \;,\, y=0 \;,\, v=16 \\ w=2 \;,\, h=2 \;,\, x=0 \;,\, y=0 \;,\, v=4 \\ w=4 \;,\, h=8 \;,\, x=6 \;,\, y=2 \;,\, v=32 \\ w=2 \;,\, h=6 \;,\, x=4 \;,\, y=2 \;,\, v=12 \\ w=1 \;,\, h=2 \;,\, x=5 \;,\, y=8 \;,\, v=2 \\ w=4 \;,\, h=6 \;,\, x=0 \;,\, y=2 \;,\, v=24 \end{array}$$



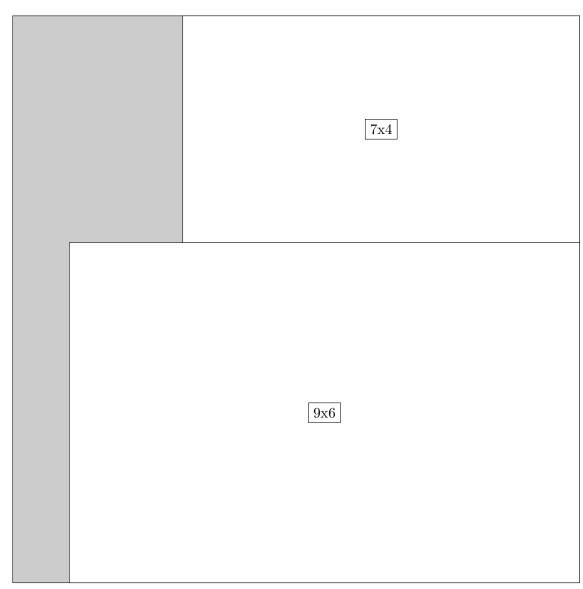
$$\begin{array}{l} w = 7 \ , \ h = 6 \ , \ x = 3 \ , \ y = 0 \ , \ v = 42 \\ w = 7 \ , \ h = 4 \ , \ x = 3 \ , \ y = 6 \ , \ v = 28 \end{array}$$

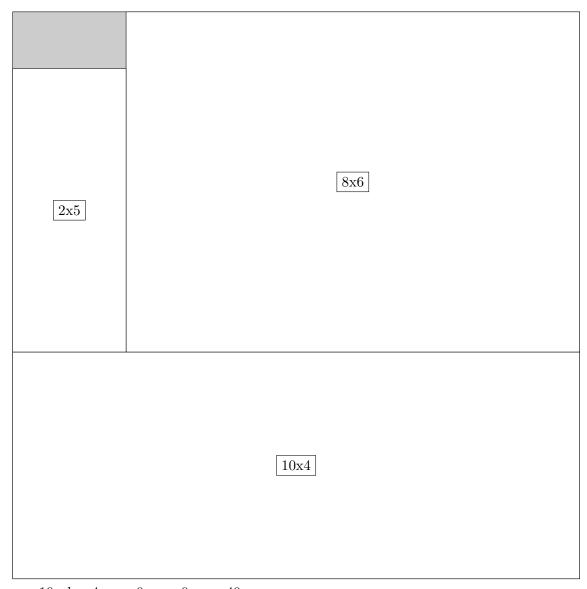
$$w = 3$$
,  $h = 8$ ,  $x = 0$ ,  $y = 0$ ,  $v = 24$ 

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

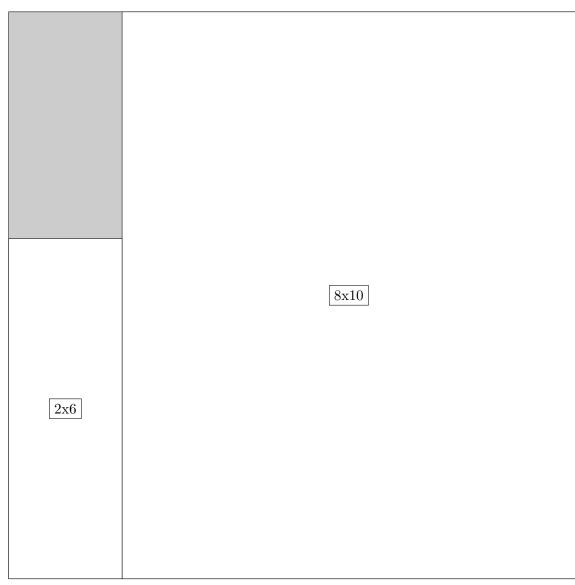


 $\begin{array}{l} w = & 10 \ , \ h = & 2 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 20 \\ w = & 9 \ , \ h = & 8 \ , \ x = & 1 \ , \ y = & 2 \ , \ v = & 72 \\ w = & 1 \ , \ h = & 7 \ , \ x = & 0 \ , \ y = & 2 \ , \ v = & 7 \end{array}$ 

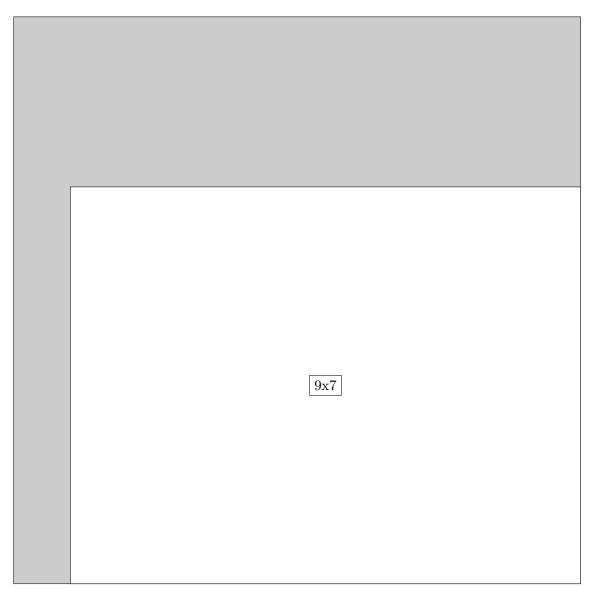




 $\begin{array}{l} w = \! 10 \ , \ h = \! 4 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 40 \\ w = \! 8 \ , \ h = \! 6 \ , \ x = \! 2 \ , \ y = \! 4 \ , \ v = \! 48 \\ w = \! 2 \ , \ h = \! 5 \ , \ x = \! 0 \ , \ y = \! 4 \ , \ v = \! 10 \end{array}$ 



w =8, h =10, x =2, y =0, v =80 w =2, h =6, x =0, y =0, v =12



 $\le =9$  , h =7 , x =1 , y =0 , v =63