${\bf ClassName:}~{\bf Class_01.2bp\text{-}33}$

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

TypeNum: <u>58</u> Num: <u>80</u> OutS: <u>2700</u> InS: <u>2438</u> Rate: <u>0.903</u> UB: <u>27</u> LB0: <u>27</u>

LB: <u>27</u> LBWithCut: <u>27</u> NodeCut: <u>0</u>

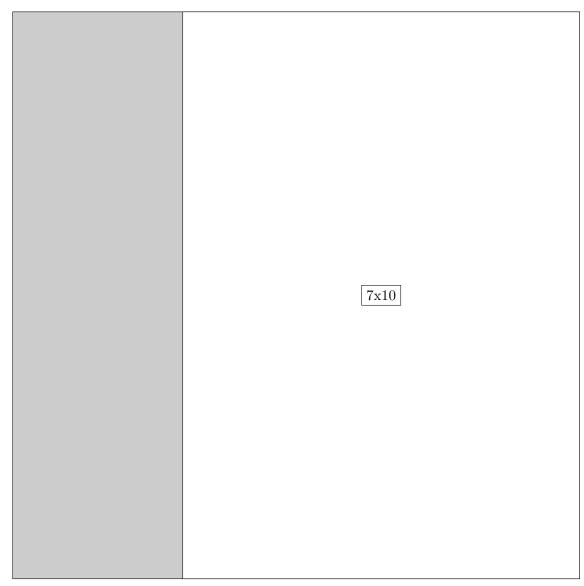
ExtendedNodeCnt: $\underline{\mathbf{1}}$

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{27}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

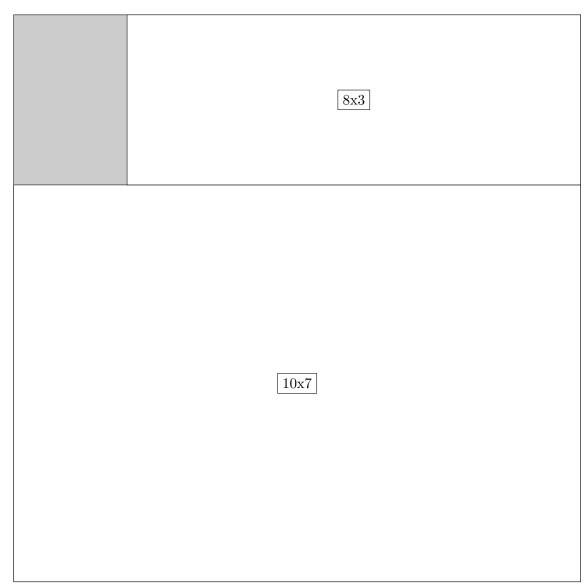
isOpt: $\underline{\mathbf{true}}$

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

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



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



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

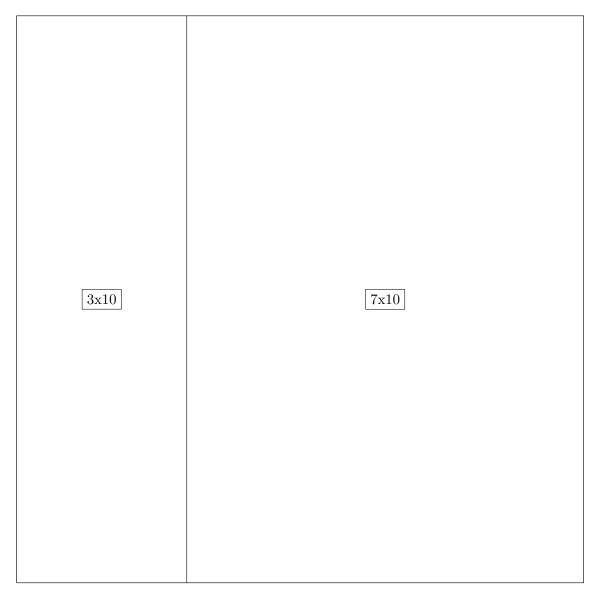
1x9	$\boxed{4\mathrm{x}10}$	$5\mathrm{x}10$	

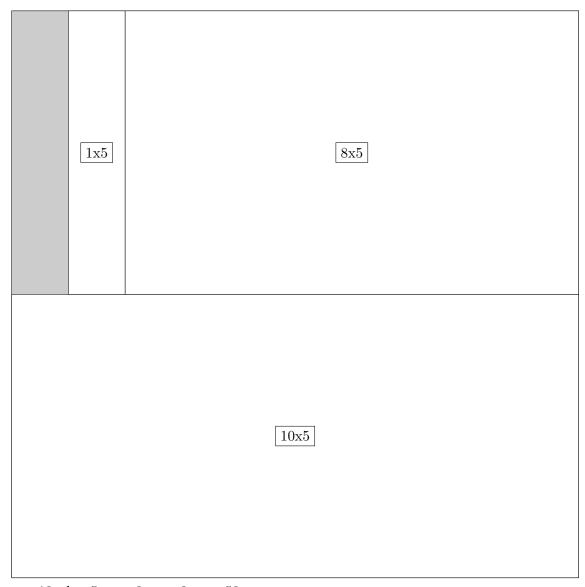
 $\begin{array}{l} w = 5 \ , \ h = 10 \ , \ x = 5 \ , \ y = 0 \ , \ v = 50 \\ w = 4 \ , \ h = 10 \ , \ x = 1 \ , \ y = 0 \ , \ v = 40 \\ w = 1 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 9 \end{array}$



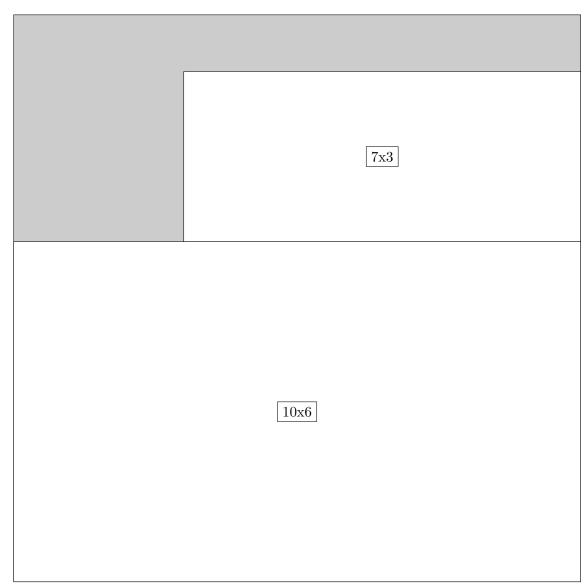
w = 10, h = 9, x = 0, y = 0, v = 90





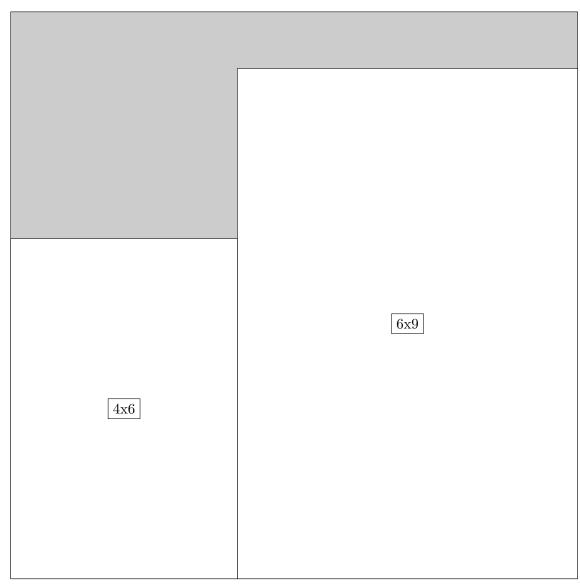


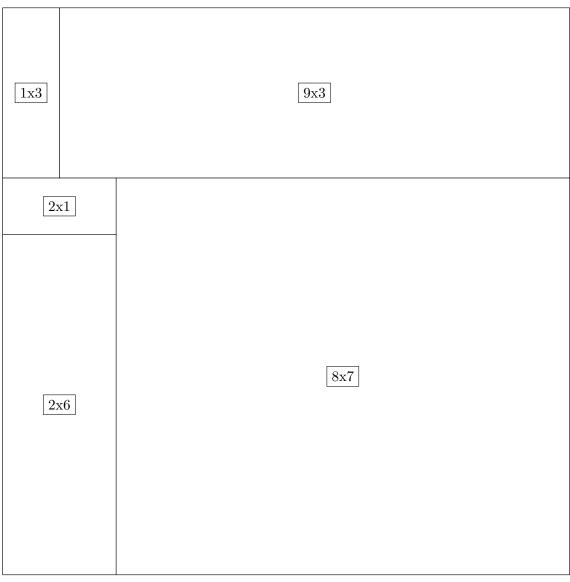
 $\begin{array}{l} w = \! 10 \ , \ h = \! 5 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 50 \\ w = \! 8 \ , \ h = \! 5 \ , \ x = \! 2 \ , \ y = \! 5 \ , \ v = \! 40 \\ w = \! 1 \ , \ h = \! 5 \ , \ x = \! 1 \ , \ y = \! 5 \ , \ v = \! 5 \end{array}$



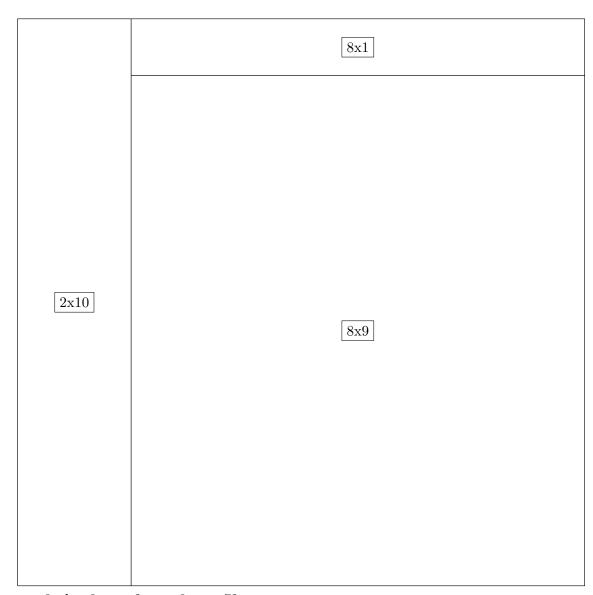


w = 10, h = 8, x = 0, y = 0, v = 80





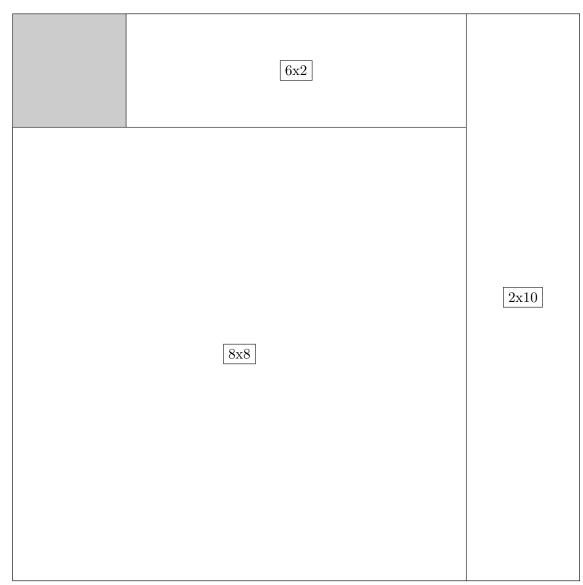
$$\begin{array}{l} w=8 \;,\; h=7 \;,\; x=2 \;,\; y=0 \;,\; v=56 \\ w=2 \;,\; h=6 \;,\; x=0 \;,\; y=0 \;,\; v=12 \\ w=2 \;,\; h=1 \;,\; x=0 \;,\; y=6 \;,\; v=2 \\ w=9 \;,\; h=3 \;,\; x=1 \;,\; y=7 \;,\; v=27 \\ w=1 \;,\; h=3 \;,\; x=0 \;,\; y=7 \;,\; v=3 \end{array}$$



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



$$\begin{array}{l} w = 9 \ , \ h = 6 \ , \ x = 1 \ , \ y = 0 \ , \ v = 54 \\ w = 9 \ , \ h = 4 \ , \ x = 1 \ , \ y = 6 \ , \ v = 36 \\ w = 1 \ , \ h = 10 \ , \ x = 0 \ , \ y = 0 \ , \ v = 10 \end{array}$$



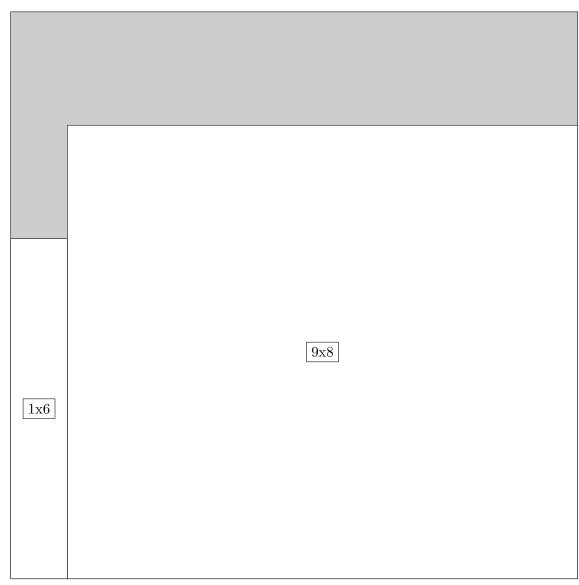
$$\le = 2$$
 , h =
10 , x =
8 , y =
0 , v =
20

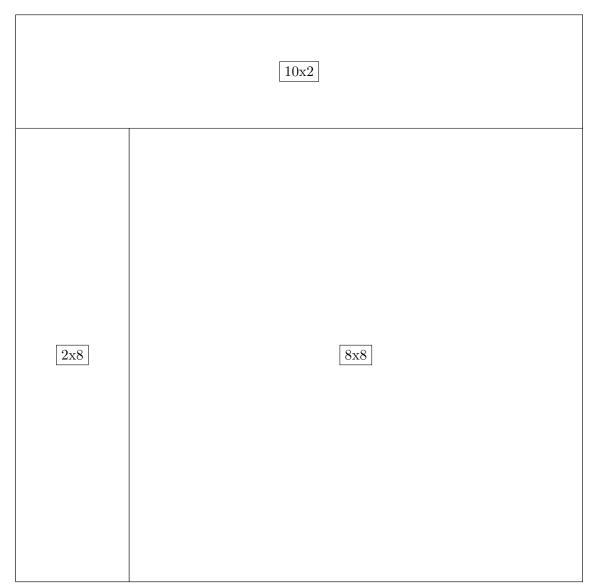
$$\le =8$$
 , $\le =8$, $\le =0$, y =0 , v =64

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

	2x4	1x3	[6x3]
1x7	2x6		7x7

 $\begin{array}{l} w=7\ ,\, h=7\ ,\, x=3\ ,\, y=0\ ,\, v=49\\ w=6\ ,\, h=3\ ,\, x=4\ ,\, y=7\ ,\, v=18\\ w=1\ ,\, h=3\ ,\, x=3\ ,\, y=7\ ,\, v=3\\ w=2\ ,\, h=6\ ,\, x=1\ ,\, y=0\ ,\, v=12\\ w=2\ ,\, h=4\ ,\, x=1\ ,\, y=6\ ,\, v=8\\ w=1\ ,\, h=7\ ,\, x=0\ ,\, y=0\ ,\, v=7 \end{array}$





$$\begin{array}{l} w = 8 \;,\; h = 8 \;,\; x = 2 \;,\; y = 0 \;,\; v = 64 \\ w = 2 \;,\; h = 8 \;,\; x = 0 \;,\; y = 0 \;,\; v = 16 \\ w = 10 \;,\; h = 2 \;,\; x = 0 \;,\; y = 8 \;,\; v = 20 \end{array}$$

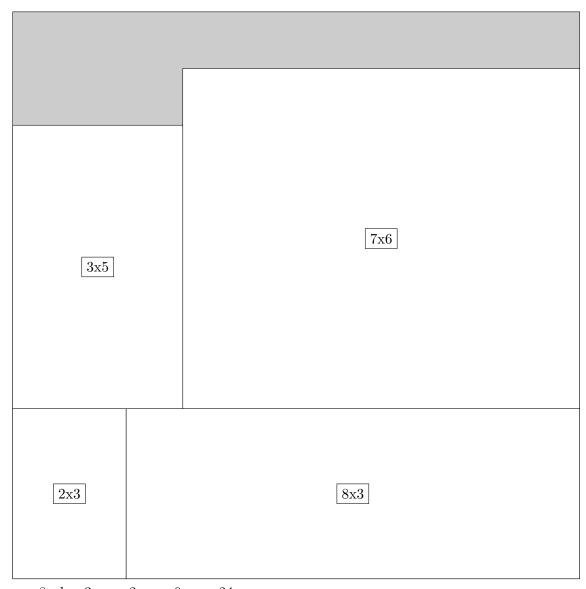
			8x1
	2:	x1	
1x8	22	x8	7x9

$$\begin{array}{l} w = 7 \ , \ h = 9 \ , \ x = 3 \ , \ y = 0 \ , \ v = 63 \\ w = 2 \ , \ h = 8 \ , \ x = 1 \ , \ y = 0 \ , \ v = 16 \end{array}$$

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

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

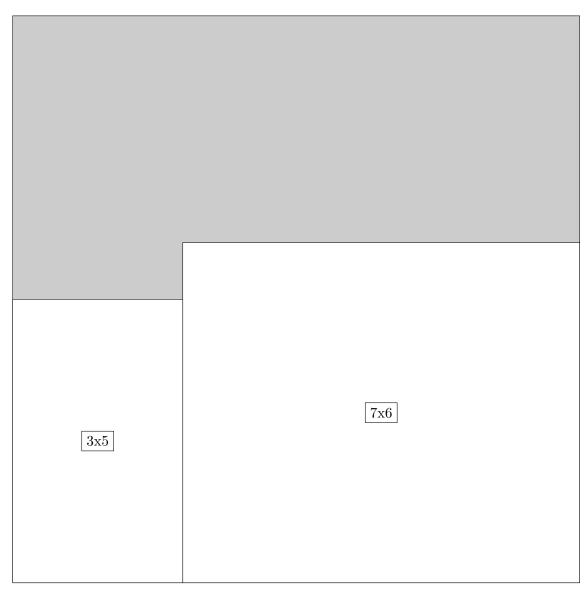
$$w = 8$$
, $h = 1$, $x = 2$, $y = 9$, $v = 8$

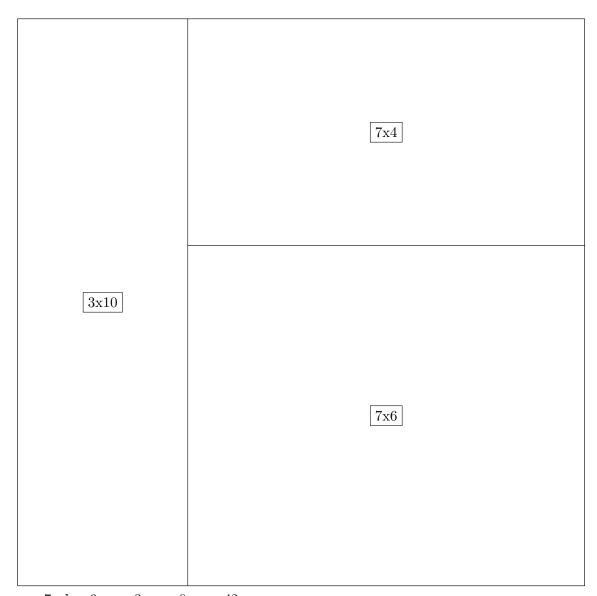


$$\begin{array}{l} w = 8 \;, \; h = \! 3 \;, \; x = \! 2 \;, \; y = \! 0 \;, \; v = \! 24 \\ w = \! 2 \;, \; h = \! 3 \;, \; x = \! 0 \;, \; y = \! 0 \;, \; v = \! 6 \end{array}$$

$$\mathbf{w}$$
 =7 , h =6 , x =3 , y =3 , v =42

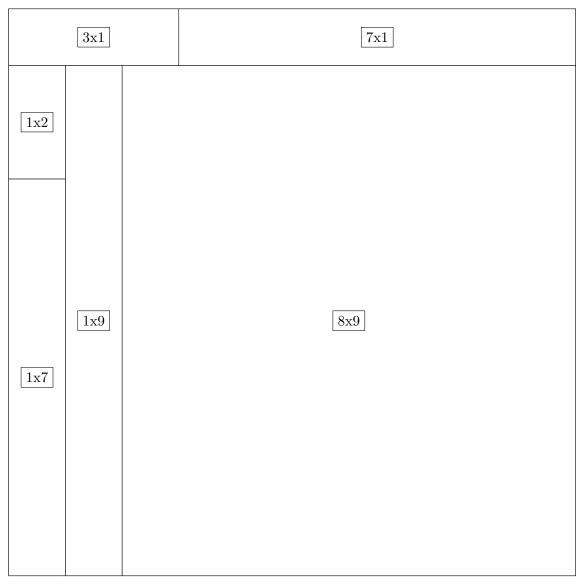
$$\mathbf{w}$$
 =3 , h =5 , x =0 , y =3 , v =
15



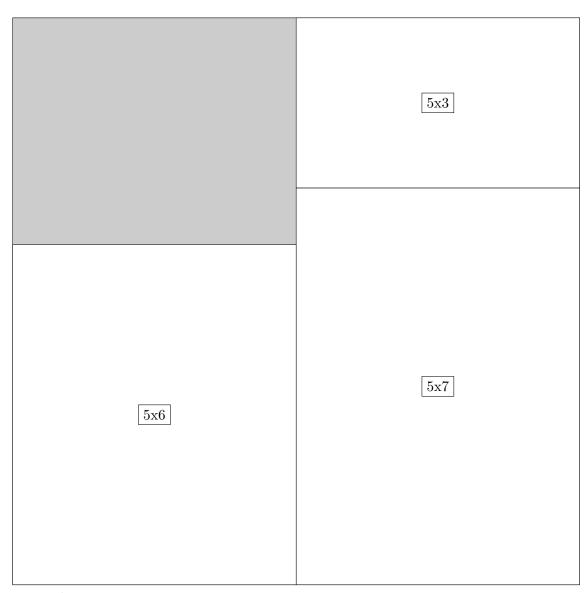


 $\begin{array}{l} w = 7 \ , \ h = 6 \ , \ x = 3 \ , \ y = 0 \ , \ v = 42 \\ w = 7 \ , \ h = 4 \ , \ x = 3 \ , \ y = 6 \ , \ v = 28 \end{array}$

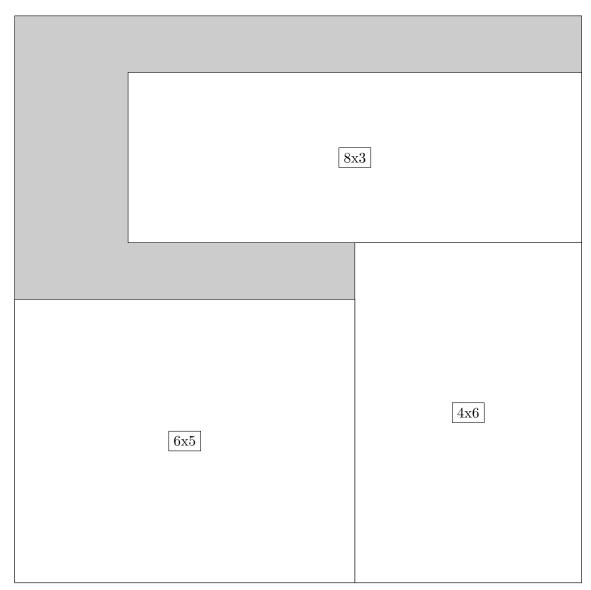
 \mathbf{w} =3 , h =10 , x =0 , y =0 , v =30



$$\begin{array}{l} w=8 \;,\; h=9 \;,\; x=2 \;,\; y=0 \;,\; v=72 \\ w=1 \;,\; h=9 \;,\; x=1 \;,\; y=0 \;,\; v=9 \\ w=1 \;,\; h=7 \;,\; x=0 \;,\; y=0 \;,\; v=7 \\ w=1 \;,\; h=2 \;,\; x=0 \;,\; y=7 \;,\; v=2 \\ w=7 \;,\; h=1 \;,\; x=3 \;,\; y=9 \;,\; v=7 \\ w=3 \;,\; h=1 \;,\; x=0 \;,\; y=9 \;,\; v=3 \end{array}$$

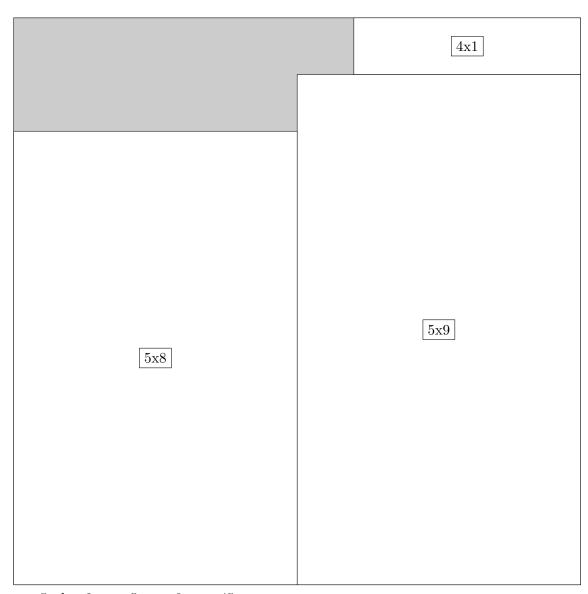


 $\begin{array}{l} w = 5 \ , \ h = 7 \ , \ x = 5 \ , \ y = 0 \ , \ v = 35 \\ w = 5 \ , \ h = 3 \ , \ x = 5 \ , \ y = 7 \ , \ v = 15 \\ w = 5 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 30 \end{array}$



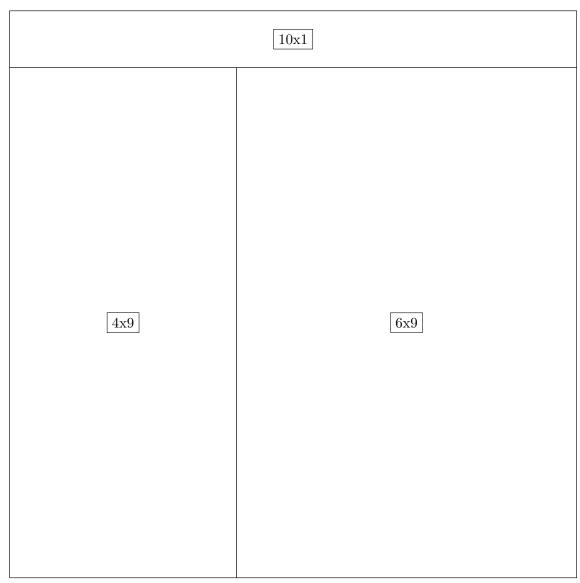
$$w = 4$$
, $h = 6$, $x = 6$, $y = 0$, $v = 24$

$$w = 8$$
, $h = 3$, $x = 2$, $y = 6$, $v = 24$

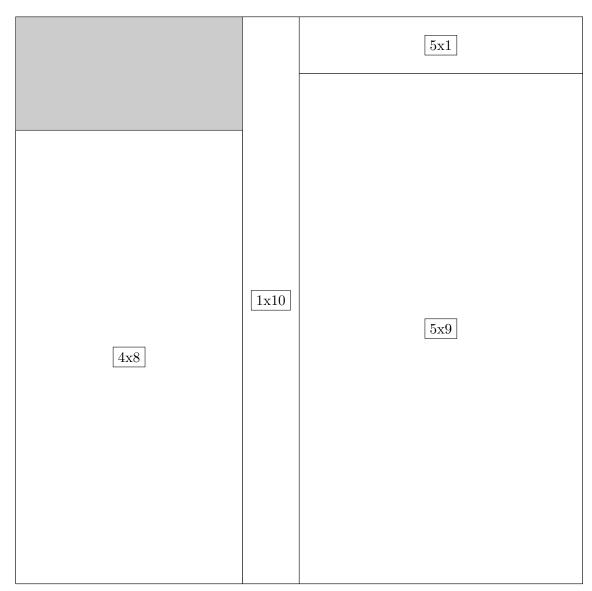


 $\begin{array}{l} w = 5 \ , \ h = 9 \ , \ x = 5 \ , \ y = 0 \ , \ v = \!\! 45 \\ w = \!\! 4 \ , \ h = \!\! 1 \ , \ x = \!\! 6 \ , \ y = \!\! 9 \ , \ v = \!\! 4 \end{array}$

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



 $\begin{array}{l} w = 6 \ , \ h = 9 \ , \ x = 4 \ , \ y = 0 \ , \ v = 54 \\ w = 4 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 36 \\ w = 10 \ , \ h = 1 \ , \ x = 0 \ , \ y = 9 \ , \ v = 10 \end{array}$



 \mathbf{w} =5 , \mathbf{h} =9 , \mathbf{x} =5 , \mathbf{y} =0 , \mathbf{v} =45

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

 \mathbf{w} =1 , h =10 , x =4 , y =0 , v =10

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