$ClassName: \ Class_01.2bp-22$

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: <u>21</u> LB: <u>21</u>

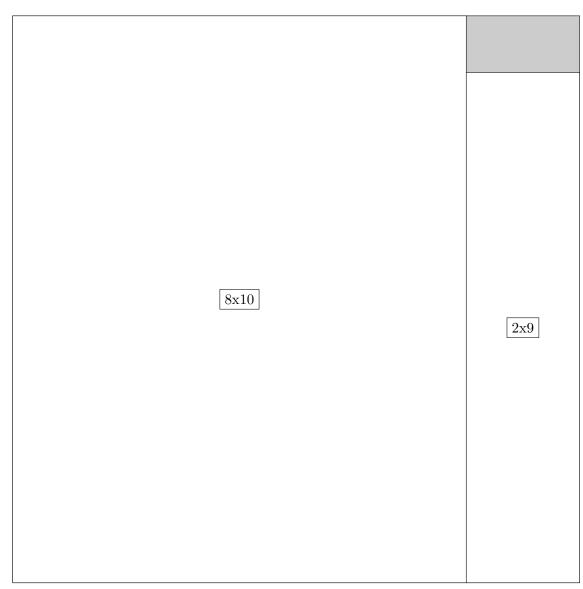
LBWithCut: $\underline{21}$ NodeCut: $\underline{0}$

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

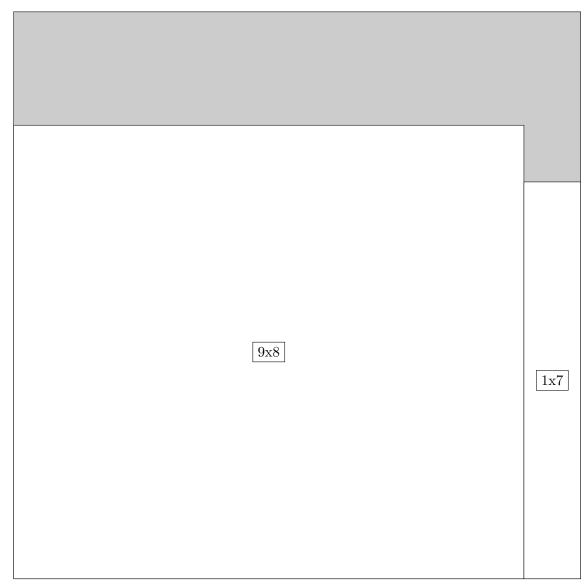
GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{21}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

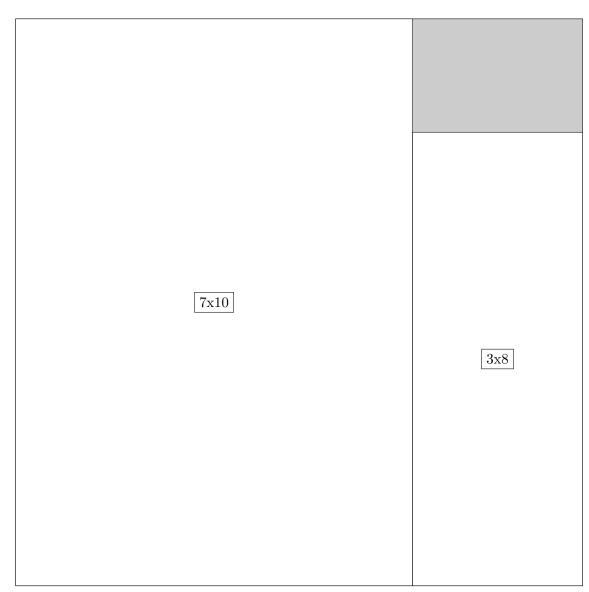
isOpt: **true**

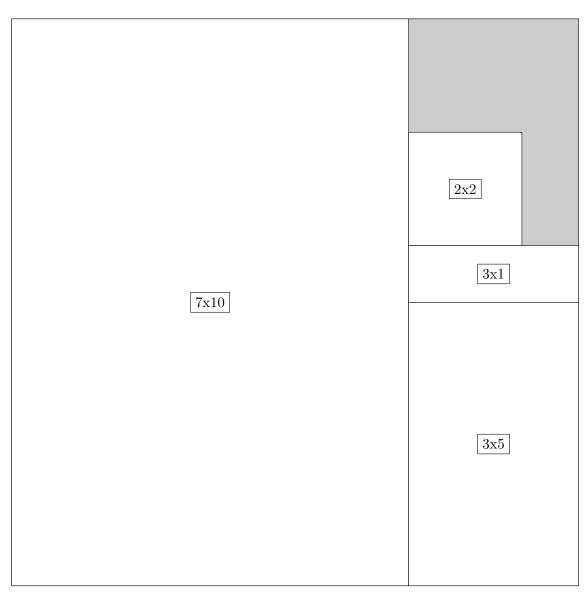
 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{0.060 \ s} \\ {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.063 \ s} \\ {\rm TotalTime:} \ \underline{0.185 \ s} \end{array}$



w =8, h =10, x =0, y =0, v =80 w =2, h =9, x =8, y =0, v =18





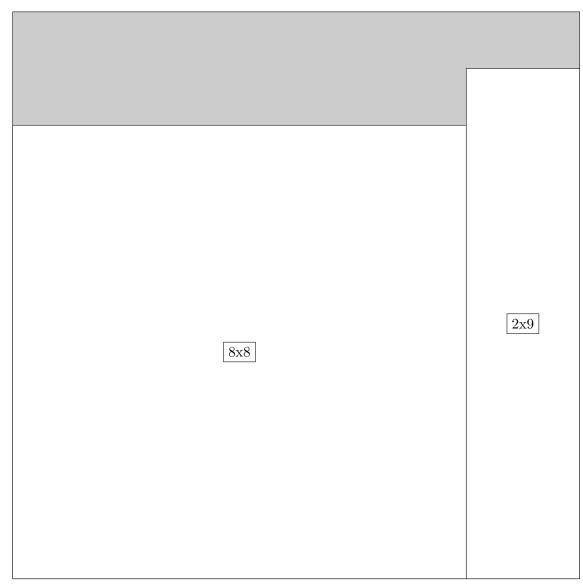


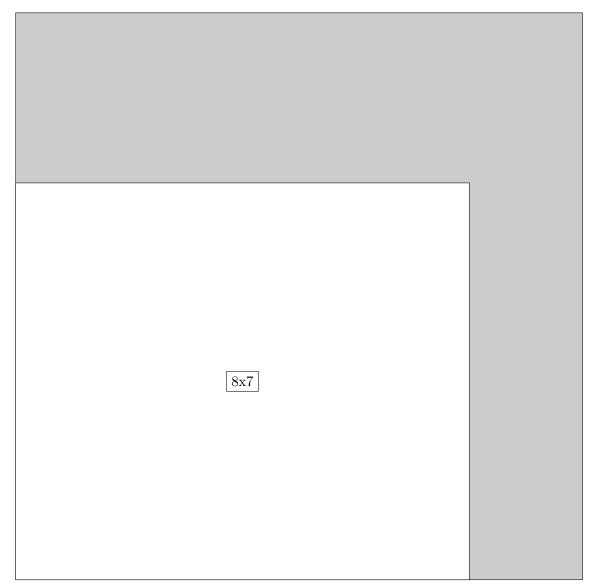
$$\mathbf{w}$$
 =7 , h =10 , x =0 , y =0 , v =70

$$\mathbf{w}$$
 =3 , h =5 , x =7 , y =0 , v =
15

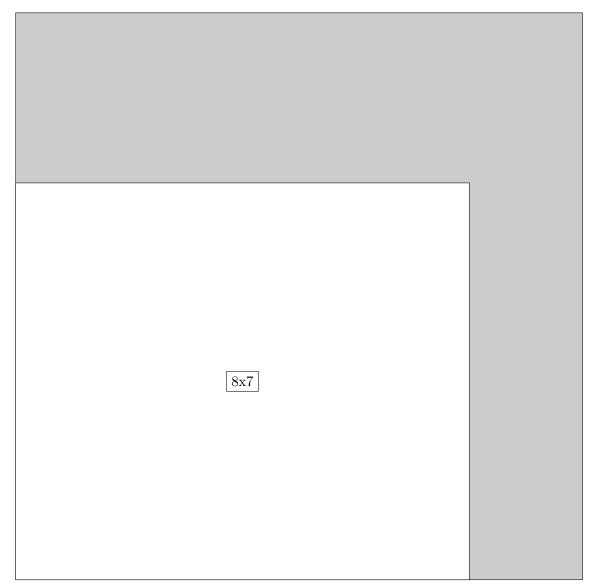
$$\mathbf{w}$$
 =2 , h =2 , x =7 , y =6 , v =4

$$\mathbf{w}$$
 =3 , h =1 , x =7 , y =5 , v =3

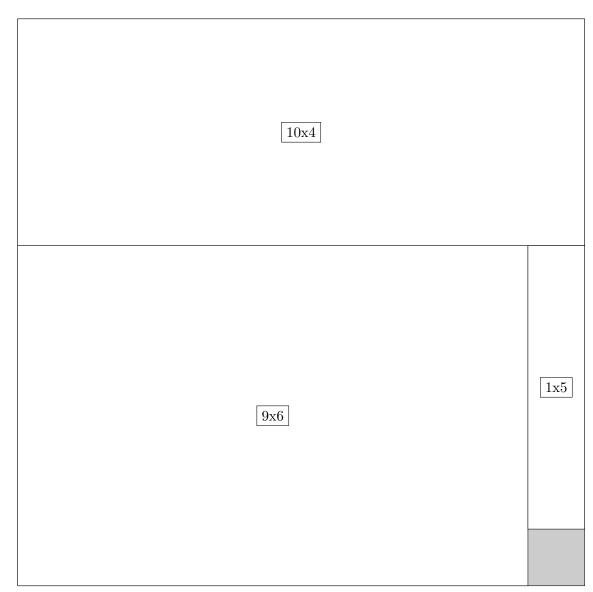




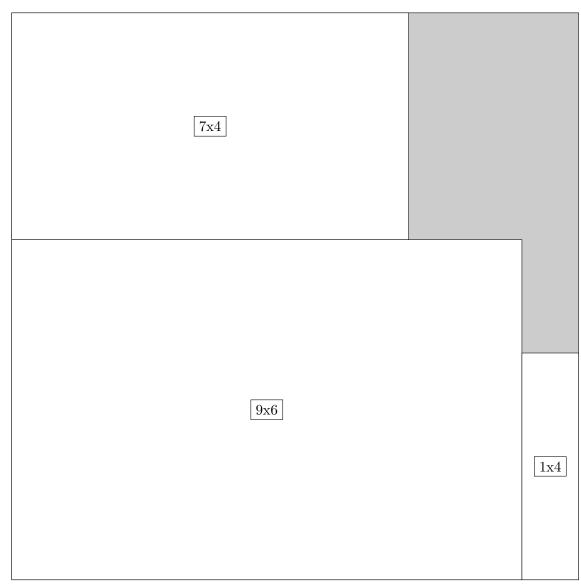
 \mathbf{w} =8 , h =7 , x =0 , y =0 , v = 56



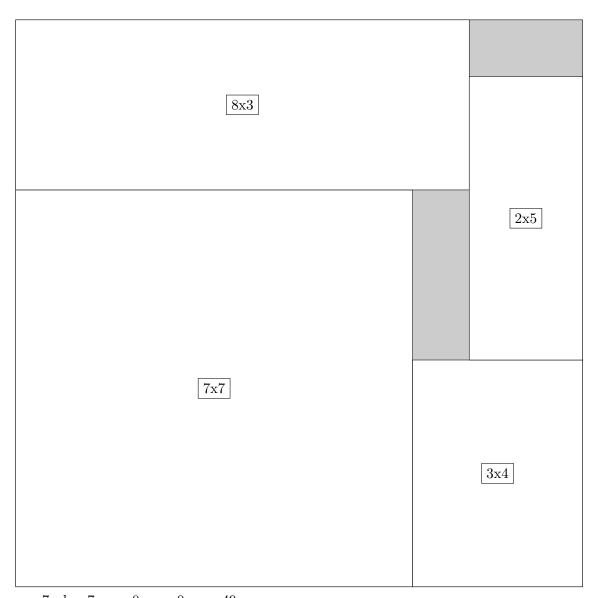
 \mathbf{w} =8 , h =7 , x =0 , y =0 , v = 56



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



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



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

$$w = 0$$
, $n = 0$, $x = 0$, $y = 1$, $v = 24$
 $w = 3$ $b = 4$ $v = 7$ $v = 0$ $v = 12$

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

$$\mathbf{w}$$
 =2 , h =5 , x =8 , y =4 , v =10

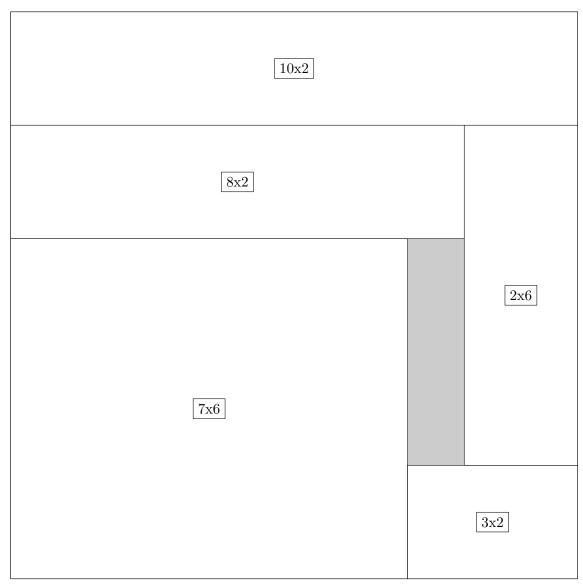
$10\mathrm{x}4$	
8x6	2x6

$$\begin{array}{l} w = 8 \;,\; h = 6 \;,\; x = 0 \;,\; y = 0 \;,\; v = 48 \\ w = 10 \;,\; h = 4 \;,\; x = 0 \;,\; y = 6 \;,\; v = 40 \\ w = 2 \;,\; h = 6 \;,\; x = 8 \;,\; y = 0 \;,\; v = 12 \end{array}$$

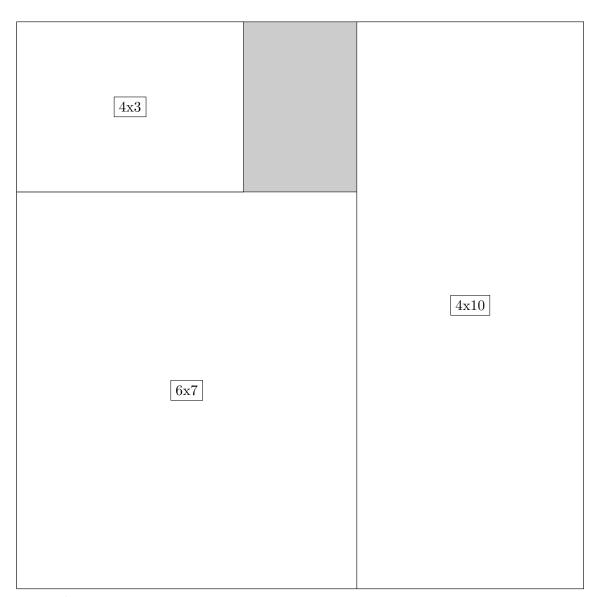
7x4	
7x6	3x9

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

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



$$\begin{array}{l} w=7\ ,\ h=6\ ,\ x=0\ ,\ y=0\ ,\ v=42\\ w=10\ ,\ h=2\ ,\ x=0\ ,\ y=8\ ,\ v=20\\ w=8\ ,\ h=2\ ,\ x=0\ ,\ y=6\ ,\ v=16\\ w=2\ ,\ h=6\ ,\ x=8\ ,\ y=2\ ,\ v=12\\ w=3\ ,\ h=2\ ,\ x=7\ ,\ y=0\ ,\ v=6 \end{array}$$



 $\begin{array}{l} w=6 \ , \ h=7 \ , \ x=0 \ , \ y=0 \ , \ v=42 \\ w=4 \ , \ h=10 \ , \ x=6 \ , \ y=0 \ , \ v=40 \\ w=4 \ , \ h=3 \ , \ x=0 \ , \ y=7 \ , \ v=12 \end{array}$

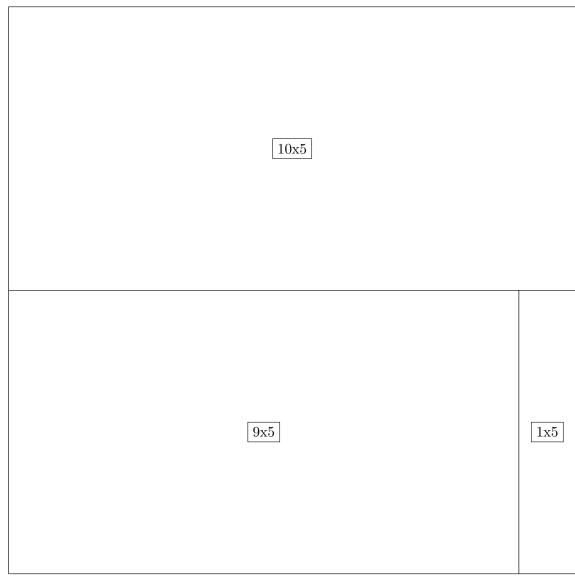
4x1		
		1x2
	9x7	1x5

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

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

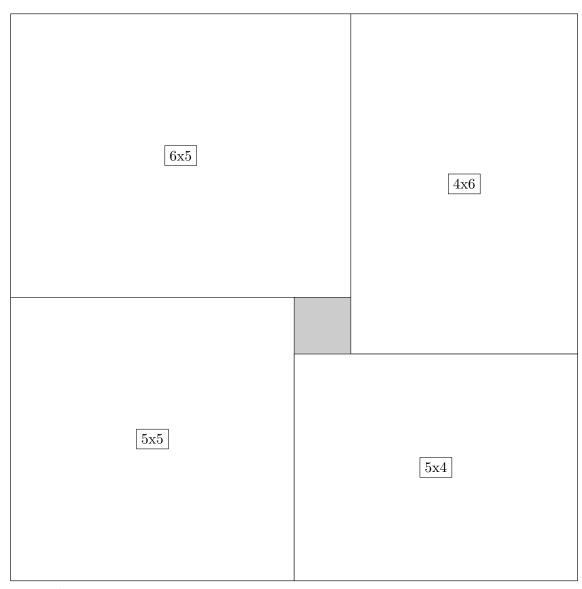
$$\mathbf{w}$$
 =4 , h =1 , x =0 , y =7 , v =4

$$\mathbf{w}$$
 =1 , h =2 , x =9 , y =5 , v =2



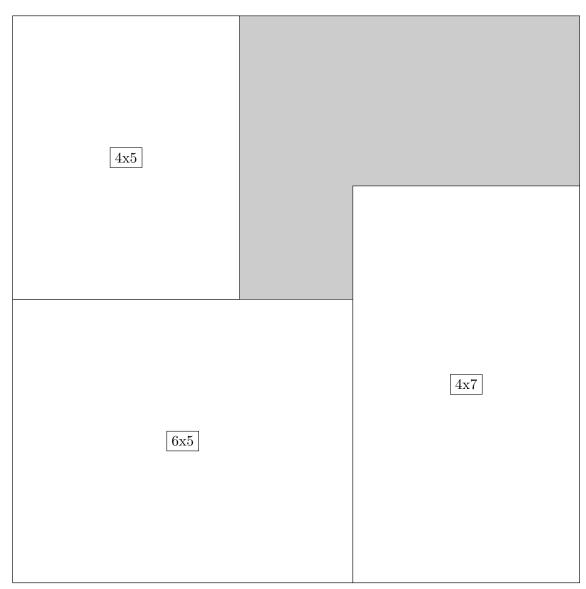
$$\begin{array}{l} w = \! 10 \ , \ h = \! 5 \ , \ x = \! 0 \ , \ y = \! 5 \ , \ v = \! 50 \\ w = \! 9 \ , \ h = \! 5 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 45 \\ w = \! 1 \ , \ h = \! 5 \ , \ x = \! 9 \ , \ y = \! 0 \ , \ v = \! 5 \end{array}$$

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



$$\begin{array}{l} w = 6 \ , \ h = 5 \ , \ x = 0 \ , \ y = 5 \ , \ v = 30 \\ w = 5 \ , \ h = 5 \ , \ x = 0 \ , \ y = 0 \ , \ v = 25 \\ w = 4 \ , \ h = 6 \ , \ x = 6 \ , \ y = 4 \ , \ v = 24 \end{array}$$

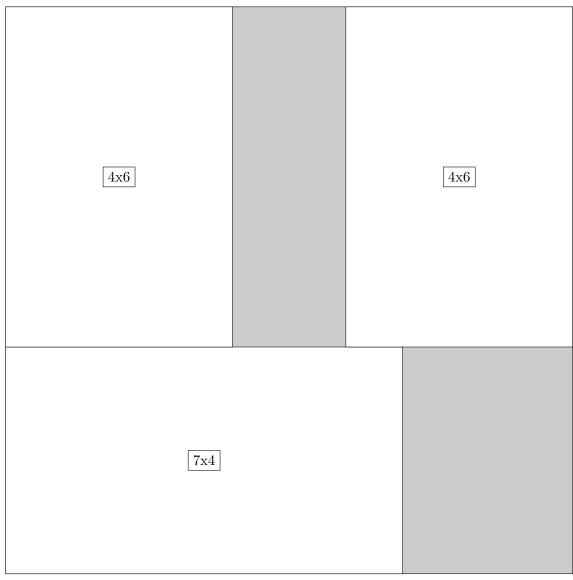
 $\mathbf{w}=\!5$, $\mathbf{h}=\!\!4$, $\mathbf{x}=\!\!5$, $\mathbf{y}=\!\!0$, $\mathbf{v}=\!\!20$



$$w = 6$$
, $h = 5$, $x = 0$, $y = 0$, $v = 30$

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

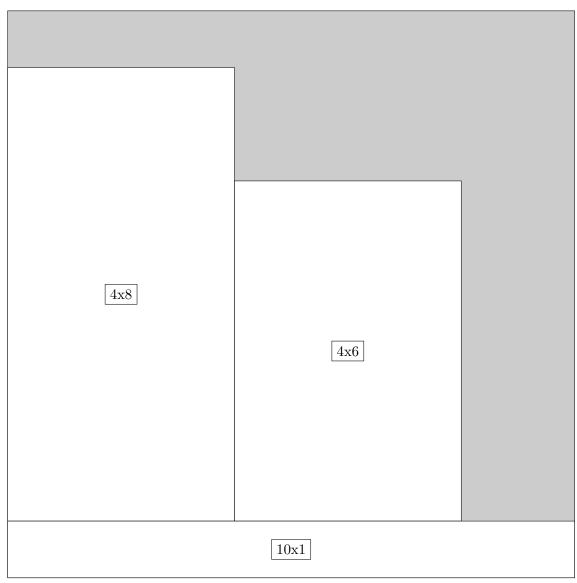
$$\mathbf{w}$$
 =4 , h =5 , x =0 , y =5 , v =20



w = 7, h = 4, x = 0, y = 0, v = 28

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

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



 $\begin{array}{l} w = \! 4 \ , \ h = \! 8 \ , \ x = \! 0 \ , \ y = \! 1 \ , \ v = \! 32 \\ w = \! 4 \ , \ h = \! 6 \ , \ x = \! 4 \ , \ y = \! 1 \ , \ v = \! 24 \\ w = \! 10 \ , \ h = \! 1 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 10 \end{array}$