${\bf ClassName:}\ {\bf Class_01.2bp\text{-}37}$

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

TypeNum: <u>56</u> Num: <u>80</u> OutS: <u>2900</u> InS: <u>2644</u> Rate: <u>0.912</u> UB: <u>29</u> LB: <u>29</u>

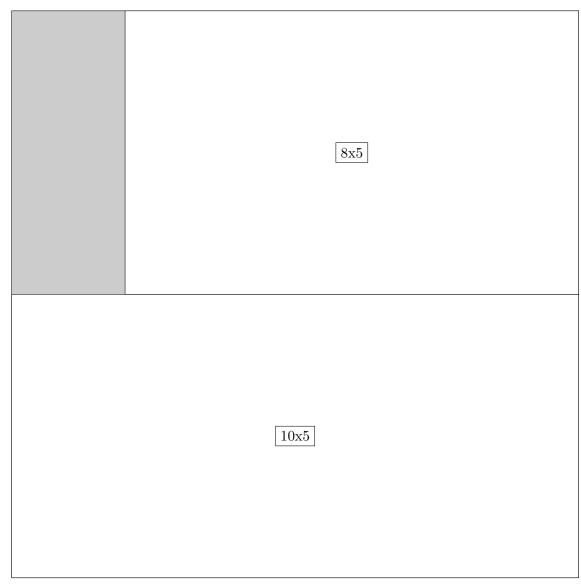
LBWithCut: $\underline{\mathbf{29}}$ NodeCount: $\underline{\mathbf{0}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{29}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$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

isOpt: **true**

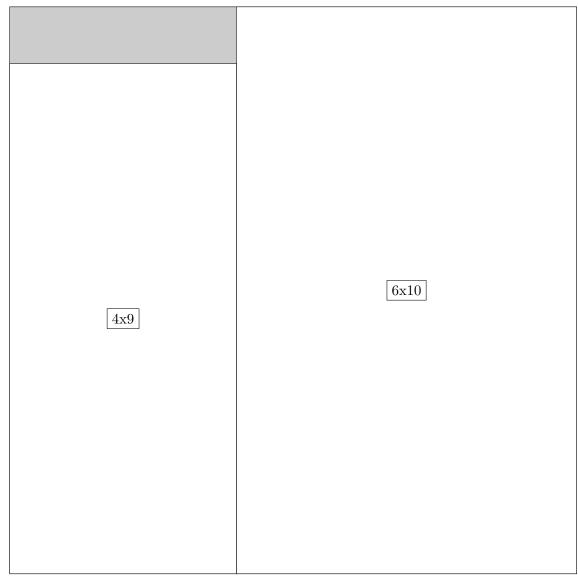
TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.063 sTotalTime: 0.203 s



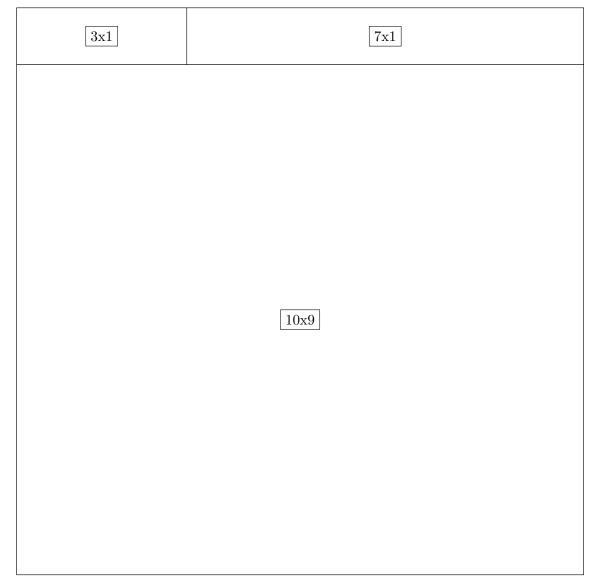
 \mathbf{w} =10 , h =10 , x =0 , y =0 , v =100



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



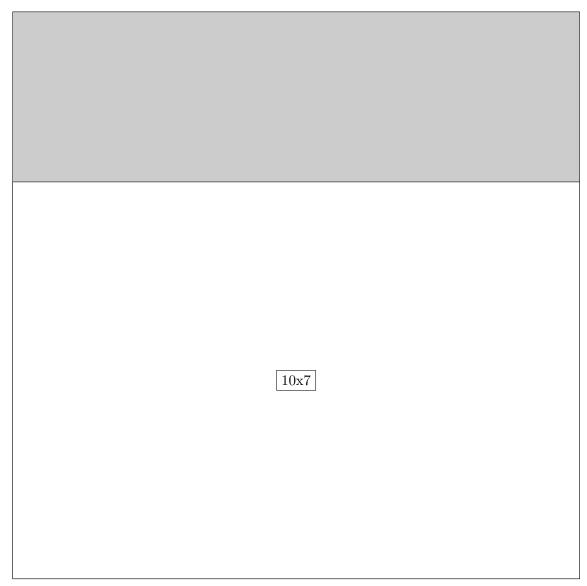
w =6, h =10, x =4, y =0, v =60 w =4, h =9, x =0, y =0, v =36



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

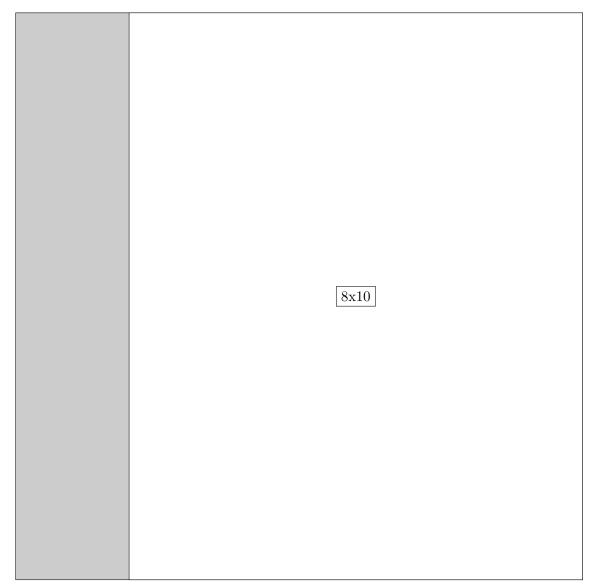
$$\mathbf{w}$$
 =7 , h =1 , x =3 , y =9 , v =7

$$\mathbf{w}$$
 =3 , h =1 , x =0 , y =9 , v =3

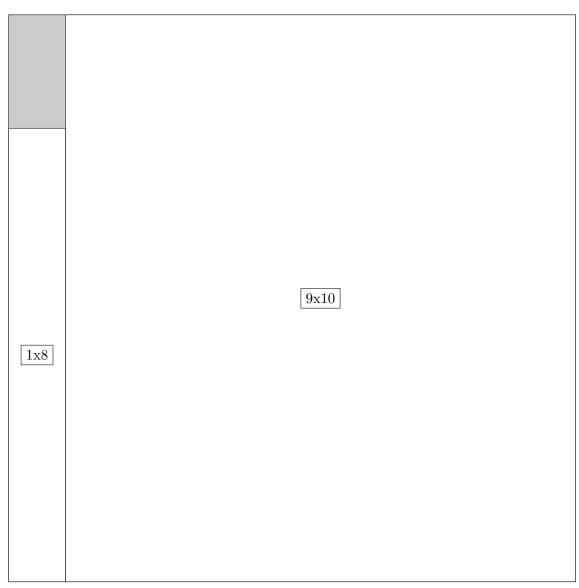


w = 10, h = 7, x = 0, y = 0, v = 70

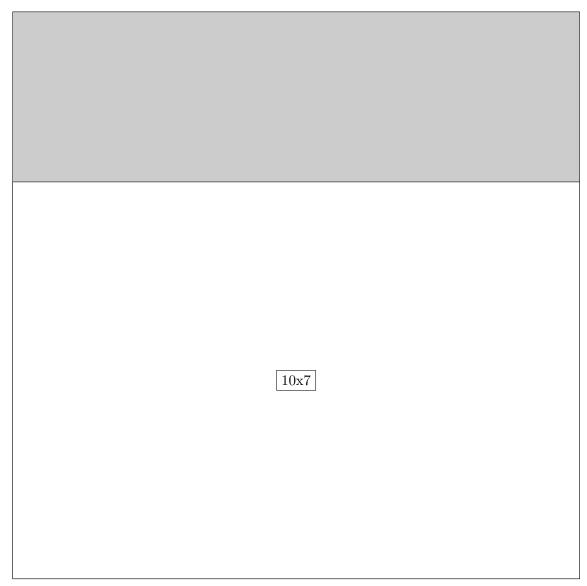




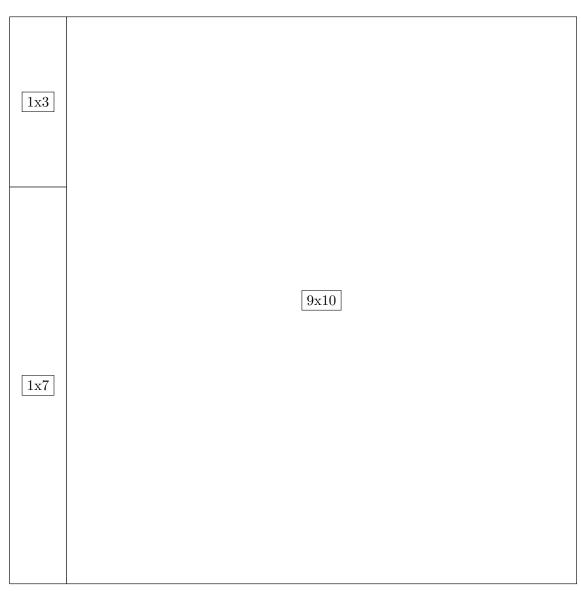
 \mathbf{w} =8 , h =10 , x =2 , y =0 , v =80



w =9, h =10, x =1, y =0, v =90 w =1, h =8, x =0, y =0, v =8



w = 10, h = 7, x = 0, y = 0, v = 70



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

$$\mathbf{w}$$
 =1 , h =3 , x =0 , y =7 , v =3



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

| 3x4 | $7\mathrm{x}4$ |
|-----|-----------------|
| | $10\mathrm{x}6$ |

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

| | 6x3 |
|-----|------------------|
| 4x7 | $6 \mathrm{x} 7$ |
| 4.1 | UXI |

w = 6, h = 7, x = 4, y = 0, v = 42

 \mathbf{w} =6 , h =3 , x =4 , y =7 , v =18

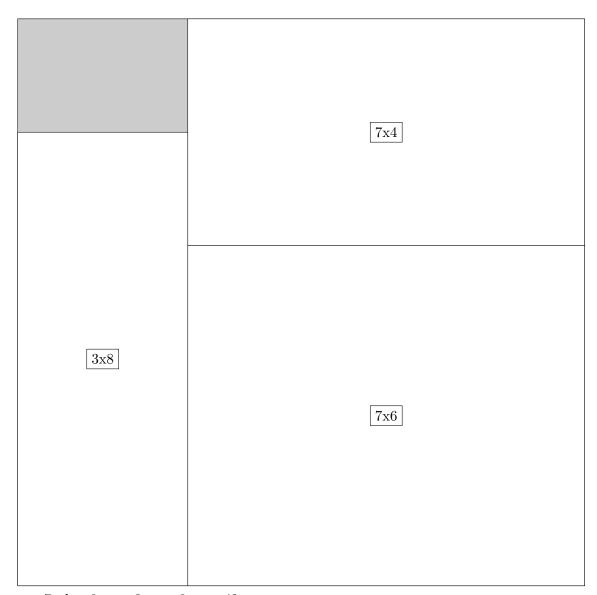
 \mathbf{w} =4 , h =7 , x =0 , y =0 , v =28



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

| | | 5x2 |
|-----|-----|-----|
| 3x8 | 7x8 | |

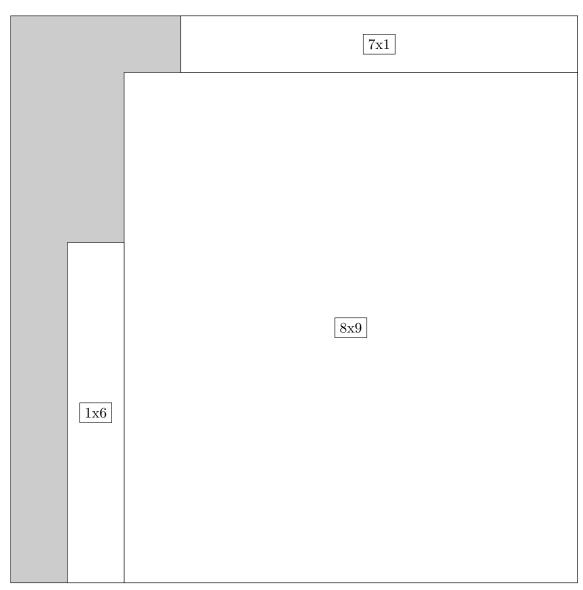
 $\begin{array}{l} w = 7 \ , \ h = 8 \ , \ x = 3 \ , \ y = 0 \ , \ v = 56 \\ w = 3 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 24 \\ w = 5 \ , \ h = 2 \ , \ x = 5 \ , \ y = 8 \ , \ v = 10 \end{array}$



$$\begin{array}{l} w = 7 \ , \ h = 6 \ , \ x = 3 \ , \ y = 0 \ , \ v = 42 \\ w = 7 \ , \ h = 4 \ , \ x = 3 \ , \ y = 6 \ , \ v = 28 \\ w = 3 \ , \ h = 8 \ , \ x = 0 \ , \ y = 0 \ , \ v = 24 \end{array}$$

| | | $9\mathrm{x}4$ |
|-----|-----|----------------|
| 1x6 | 3x6 | 6x6 |

 $\begin{array}{l} w=6 \ , \ h=6 \ , \ x=4 \ , \ y=0 \ , \ v=36 \\ w=3 \ , \ h=6 \ , \ x=1 \ , \ y=0 \ , \ v=18 \\ w=1 \ , \ h=6 \ , \ x=0 \ , \ y=0 \ , \ v=6 \\ w=9 \ , \ h=4 \ , \ x=1 \ , \ y=6 \ , \ v=36 \end{array}$



$$w = 8$$
, $h = 9$, $x = 2$, $y = 0$, $v = 72$

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

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

| | 3x1 |
|-----|-----|
| 5x3 | |
| | |
| | |
| | 3x9 |
| 7x7 | |
| | |
| | |
| | |

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

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

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

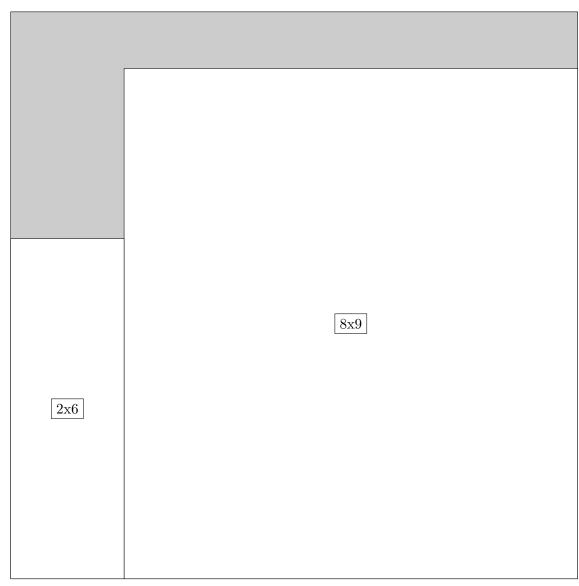
 \mathbf{w} =5 , h =3 , x =2 , y =7 , v = 15

| 4x1 | |
|-----|-----|
| 4x7 | 6x8 |

 $\begin{array}{l} w = 6 \ , \ h = 8 \ , \ x = 4 \ , \ y = 0 \ , \ v = 48 \\ w = 4 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 28 \\ w = 4 \ , \ h = 1 \ , \ x = 0 \ , \ y = 7 \ , \ v = 4 \end{array}$

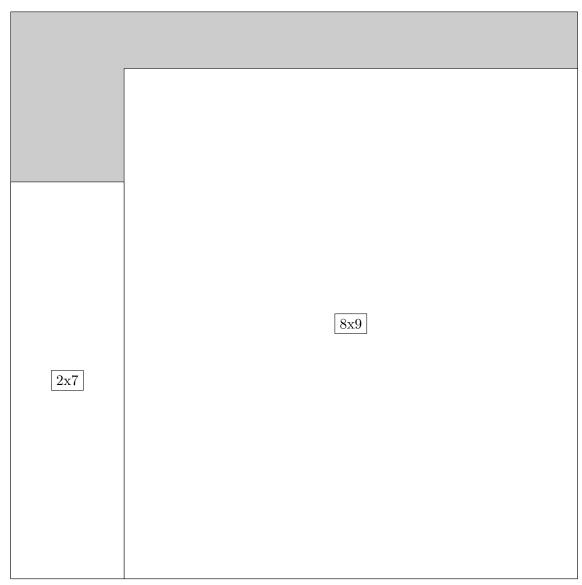
| | 2x1 | 6x2 |
|-----|-----|-----|
| 2x8 | | 8x8 |

$$\begin{array}{l} w = 8 \;,\; h = 8 \;,\; x = 2 \;,\; y = 0 \;,\; v = 64 \\ w = 6 \;,\; h = 2 \;,\; x = 4 \;,\; y = 8 \;,\; v = 12 \\ w = 2 \;,\; h = 1 \;,\; x = 2 \;,\; y = 8 \;,\; v = 2 \\ w = 2 \;,\; h = 8 \;,\; x = 0 \;,\; y = 0 \;,\; v = 16 \end{array}$$



| | 6x1 |
|-----|-----|
| 4x3 | |
| | |
| | |
| | |
| | 6x9 |
| 4x7 | |
| | |
| | |
| | |

$$\begin{array}{l} w=6\ ,\, h=9\ ,\, x=4\ ,\, y=0\ ,\, v=54\\ w=6\ ,\, h=1\ ,\, x=4\ ,\, y=9\ ,\, v=6\\ w=4\ ,\, h=7\ ,\, x=0\ ,\, y=0\ ,\, v=28\\ w=4\ ,\, h=3\ ,\, x=0\ ,\, y=7\ ,\, v=12 \end{array}$$



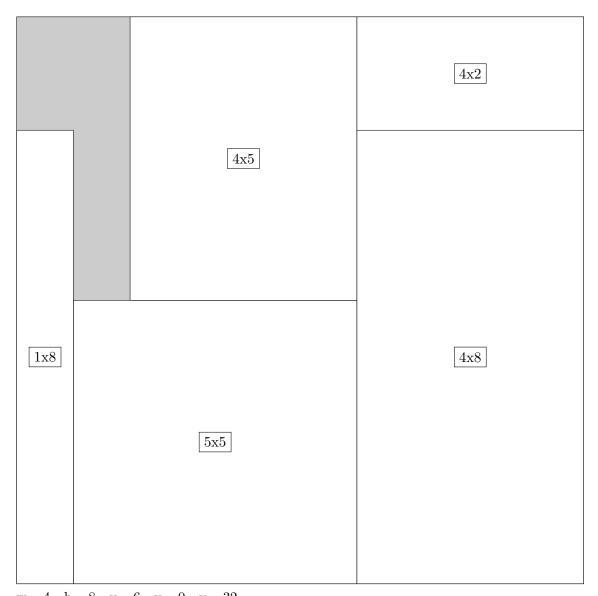
| 4x5 | $6\mathrm{x}5$ |
|-----|----------------|
| 2x1 | 8x5 |

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

$$w = 2$$
, $h = 1$, $x = 0$, $y = 4$, $v = 2$

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

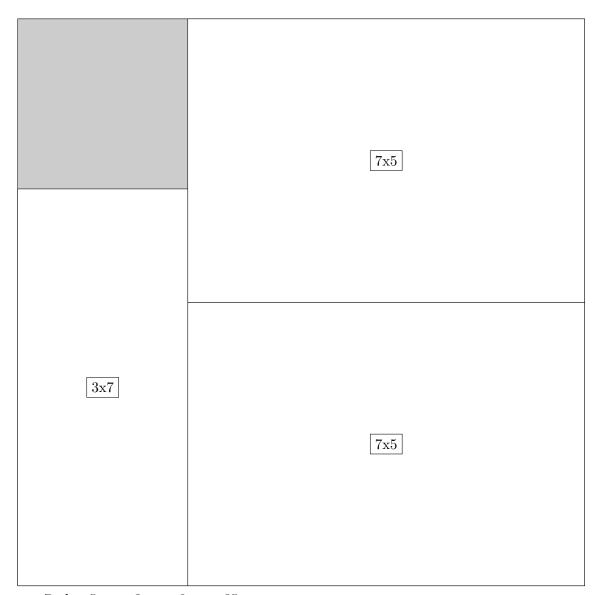
$$\mathbf{w}=\!\!4$$
 , $\mathbf{h}=\!\!5$, $\mathbf{x}=\!\!0$, $\mathbf{y}=\!\!5$, $\mathbf{v}=\!\!20$



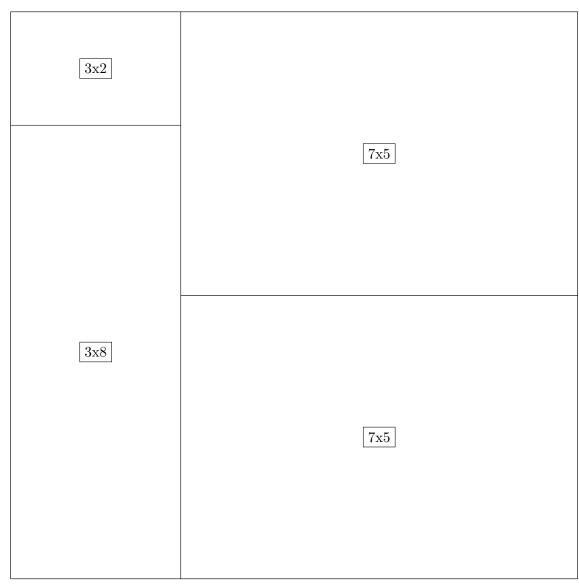
$$\begin{array}{l} w = 4 \ , \ h = 8 \ , \ x = 6 \ , \ y = 0 \ , \ v = 32 \\ w = 4 \ , \ h = 2 \ , \ x = 6 \ , \ y = 8 \ , \ v = 8 \\ w = 5 \ , \ h = 5 \ , \ x = 1 \ , \ y = 0 \ , \ v = 25 \end{array}$$

$$w = 4$$
, $h = 5$, $x = 2$, $y = 5$, $v = 20$

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



$$\begin{array}{l} w = 7 \;, \; h = 5 \;, \; x = 3 \;, \; y = 0 \;, \; v = 35 \\ w = 7 \;, \; h = 5 \;, \; x = 3 \;, \; y = 5 \;, \; v = 35 \\ w = 3 \;, \; h = 7 \;, \; x = 0 \;, \; y = 0 \;, \; v = 21 \end{array}$$



$$w=7$$
 , $h=5$, $x=3$, $y=0$, $v=35$

$$\mathbf{w}$$
 =7 , h =5 , x =3 , y =5 , v =35

$$\mathbf{w}$$
 =3 , h =8 , x =0 , y =0 , v =24

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

| | 7x2 | |
|-----|-----|-----|
| | 3x3 | |
| 3x5 | 3x5 | 4x8 |

w = 4, h = 8, x = 6, y = 0, v = 32

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

 $\begin{array}{l} w = 3 \ , \ h = 3 \ , \ x = 3 \ , \ y = 5 \ , \ v = 9 \\ w = 3 \ , \ h = 5 \ , \ x = 0 \ , \ y = 0 \ , \ v = 15 \end{array}$

 \mathbf{w} =7 , h =2 , x =3 , y =8 , v = 14