$ClassName: \ Class\_01.2bp\text{-}41$ 

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

TypeNum: <u>63</u> Num: <u>100</u> OutS: <u>3100</u> InS: <u>3040</u> Rate: <u>0.981</u> UB: <u>31</u> LB: <u>31</u>

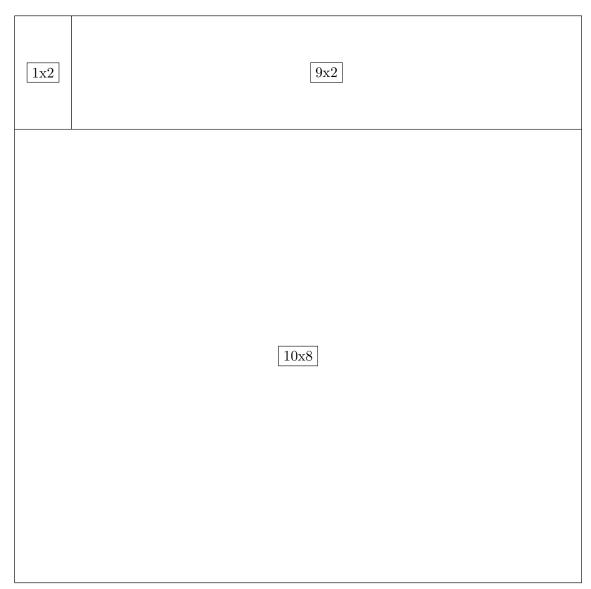
LBWithCut:  $\underline{31}$ NodeCount:  $\underline{0}$ PrimalNode:  $\underline{0}$ ColumnCount:  $\underline{31}$ TotalCutCount:  $\underline{0}$ RootCutCount:  $\underline{0}$ LPSolverCnt:  $\underline{1}$ PricingSolverCnt:  $\underline{0}$ BranchAndBoundNum:  $\underline{1}$ 

isOpt: **true** 

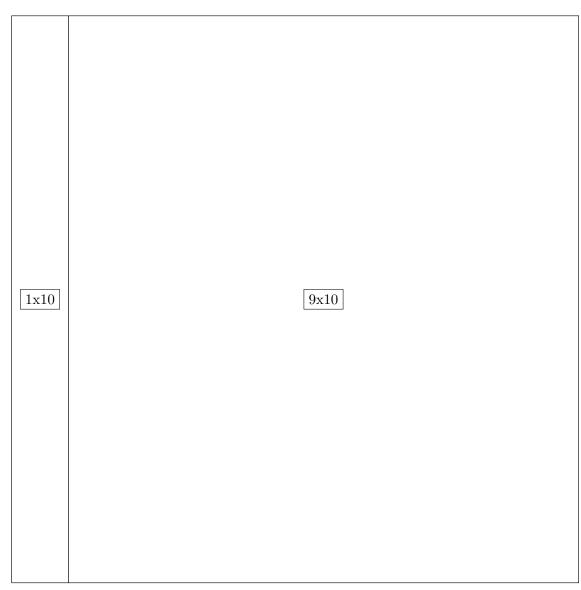
 $\begin{array}{ll} \text{TimeOnPrimal: } \underline{0.000 \text{ s}} \\ \text{TimeOnPricing: } \underline{0.000 \text{ s}} \\ \text{TimeOnRmp: } \underline{0.078 \text{ s}} \\ \text{TotalTime: } \underline{0.219 \text{ s}} \end{array}$ 

| [5x3] |     | [5x3] |
|-------|-----|-------|
| 3x7   | 7x7 |       |

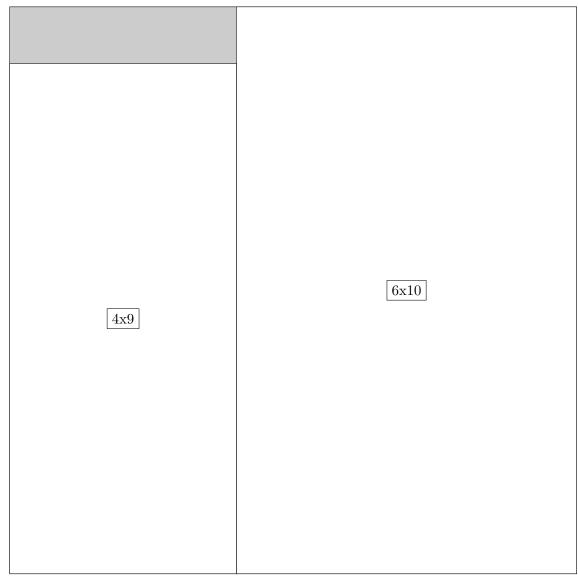
$$\begin{array}{l} w=7\ ,\, h=7\ ,\, x=3\ ,\, y=0\ ,\, v=49\\ w=3\ ,\, h=7\ ,\, x=0\ ,\, y=0\ ,\, v=21\\ w=5\ ,\, h=3\ ,\, x=5\ ,\, y=7\ ,\, v=15\\ w=5\ ,\, h=3\ ,\, x=0\ ,\, y=7\ ,\, v=15 \end{array}$$



 $\begin{array}{l} w = & 10 \ , \ h = & 8 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 80 \\ w = & 9 \ , \ h = & 2 \ , \ x = & 1 \ , \ y = & 8 \ , \ v = & 18 \\ w = & 1 \ , \ h = & 2 \ , \ x = & 0 \ , \ y = & 8 \ , \ v = & 2 \end{array}$ 







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

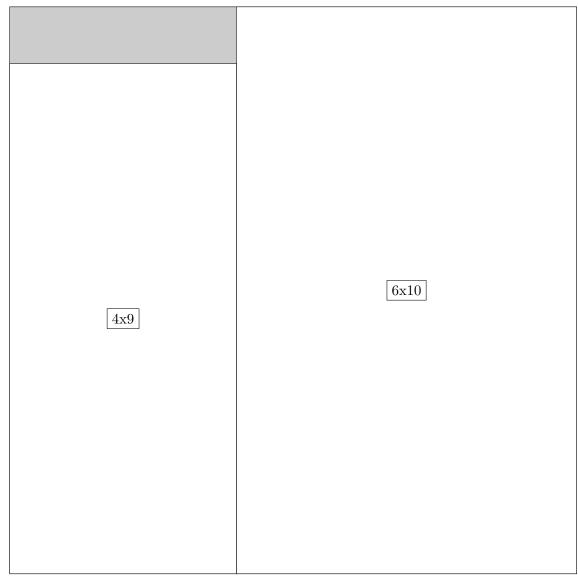
| 1x1 | 9x1 |
|-----|-----|
| 1x9 | 9x9 |

w = 9, h = 9, x = 1, y = 0, v = 81

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

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

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



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

| 2x2 | 8x2 |
|-----|-----|
| 2x8 | 8x8 |

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

| 4x5 | 4x6 | 2x10 |
|-----|-----|------|
| 8x4 |     |      |

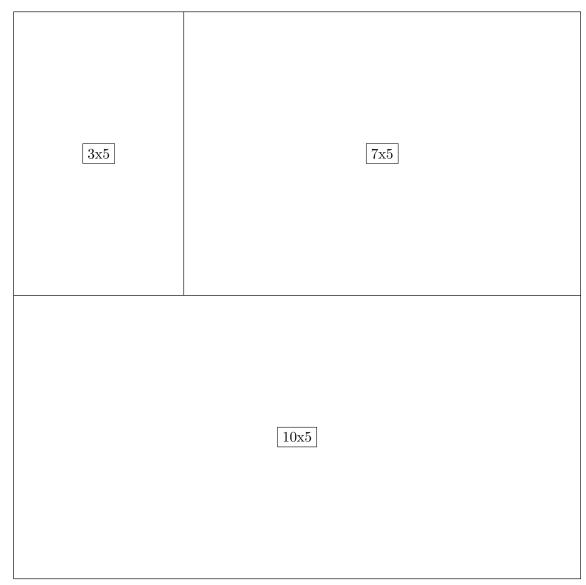
w = 2, h = 10, x = 8, y = 0, v = 20

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

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

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

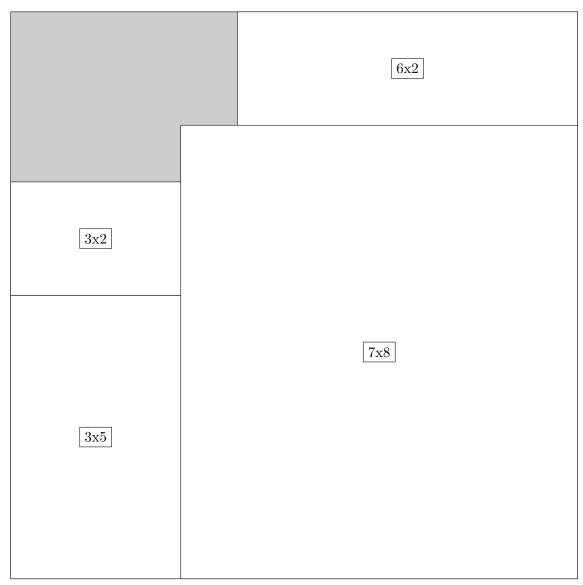




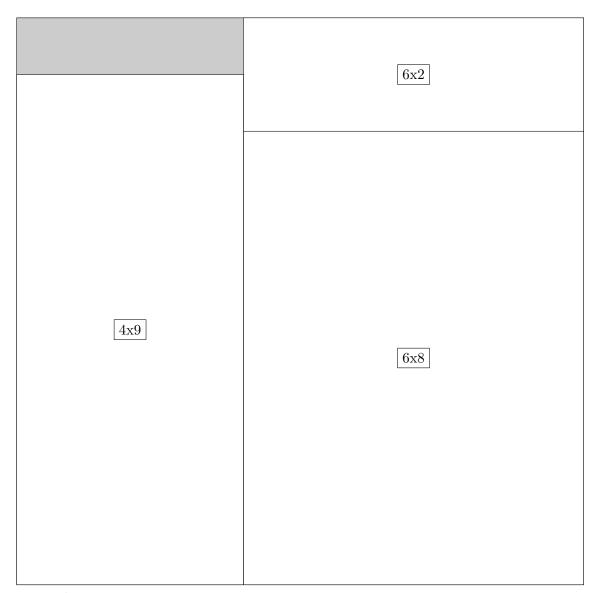
 $\begin{array}{l} w = & 10 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 50 \\ w = & 7 \ , \ h = & 5 \ , \ x = & 3 \ , \ y = & 5 \ , \ v = & 35 \\ w = & 3 \ , \ h = & 5 \ , \ x = & 0 \ , \ y = & 5 \ , \ v = & 15 \end{array}$ 

|     | 5x5 |     | 5x5 |
|-----|-----|-----|-----|
| 2x5 |     | 8x5 |     |

$$\begin{array}{l} w = 8 \ , \, h = 5 \ , \, x = 2 \ , \, y = 0 \ , \, v = 40 \\ w = 2 \ , \, h = 5 \ , \, x = 0 \ , \, y = 0 \ , \, v = 10 \\ w = 5 \ , \, h = 5 \ , \, x = 5 \ , \, y = 5 \ , \, v = 25 \\ w = 5 \ , \, h = 5 \ , \, x = 0 \ , \, y = 5 \ , \, v = 25 \end{array}$$

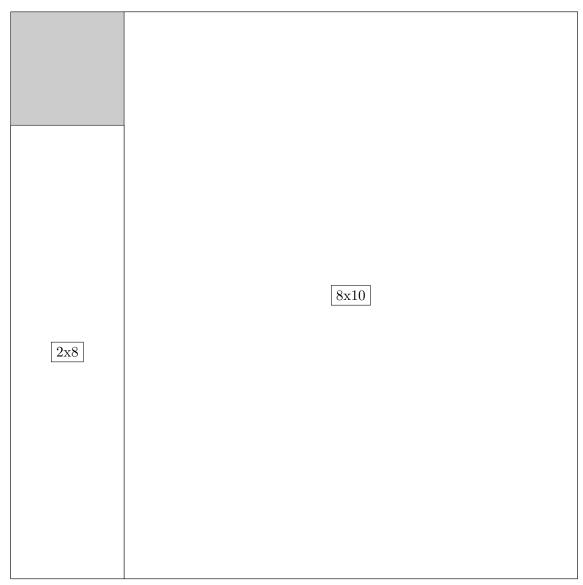


$$\begin{array}{l} w=7\ ,\, h=8\ ,\, x=3\ ,\, y=0\ ,\, v=56\\ w=6\ ,\, h=2\ ,\, x=4\ ,\, y=8\ ,\, v=12\\ w=3\ ,\, h=5\ ,\, x=0\ ,\, y=0\ ,\, v=15\\ w=3\ ,\, h=2\ ,\, x=0\ ,\, y=5\ ,\, v=6 \end{array}$$



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

 $\mathbf{w}$  =4 , h =9 , x =0 , y =0 , v =36



w =8, h =10, x =2, y =0, v =80 w =2, h =8, x =0, y =0, v =16

8x1 2x110x9

$$\begin{array}{l} w = \! 10 \; , \; h = \! 9 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 90 \\ w = \! 8 \; , \; h = \! 1 \; , \; x = \! 2 \; , \; y = \! 9 \; , \; v = \! 8 \end{array}$$

$$\mathbf{w}$$
 =2 , h =1 , x =0 , y =9 , v =2

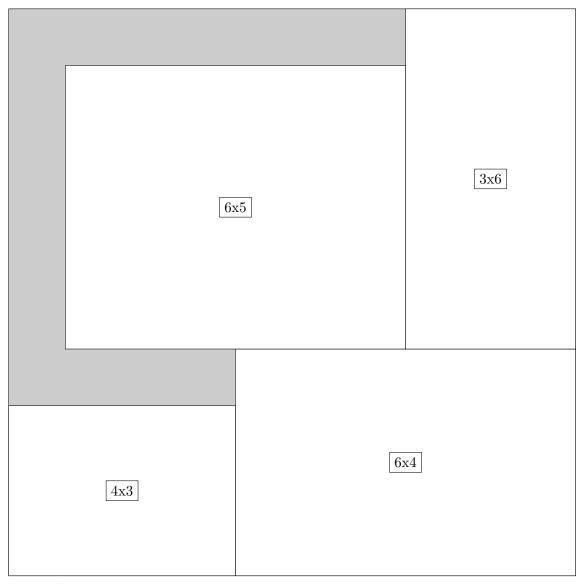
|     |      | 5x1 |
|-----|------|-----|
|     |      |     |
| 3x9 | 2x10 | 5x9 |
|     |      |     |
|     |      |     |

w =5 , h =9 , x =5 , y =0 , v =45

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

 $\le = 2$  , h = 10 , x = 3 , y = 0 , v = 20

 $\mathbf{w}$  =3 , h =9 , x =0 , y =0 , v =27

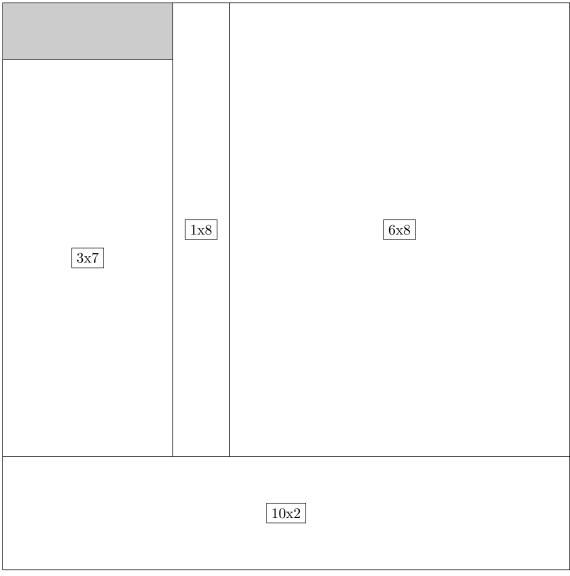


$$\mathbf{w}$$
 =6 , h =4 , x =4 , y =0 , v =24

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

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

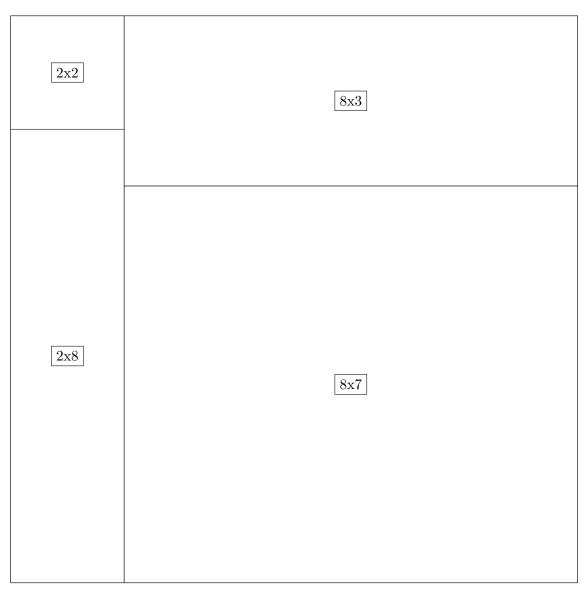
$$\mathbf{w}$$
 =6 , h =5 , x =1 , y =4 , v =30



$$\begin{array}{l} w = \! 10 \ , \ h = \! 2 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 20 \\ w = \! 6 \ , \ h = \! 8 \ , \ x = \! 4 \ , \ y = \! 2 \ , \ v = \! 48 \end{array}$$

$$\mathbf{w}$$
 =1 , h =8 , x =3 , y =2 , v =8

$$\mathbf{w}$$
 =3 , h =7 , x =0 , y =2 , v =  
21

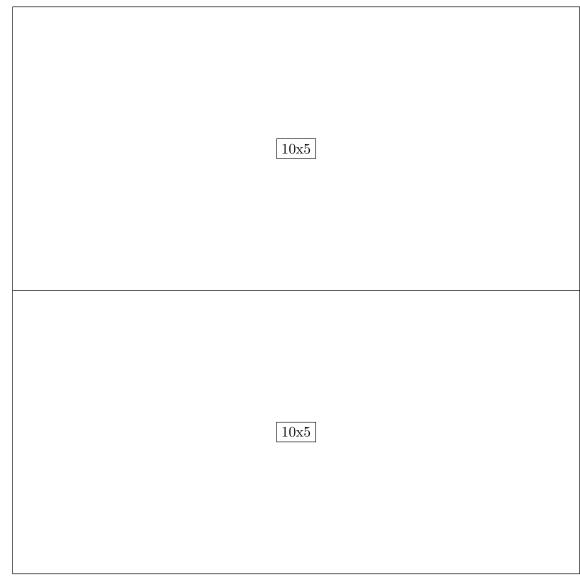


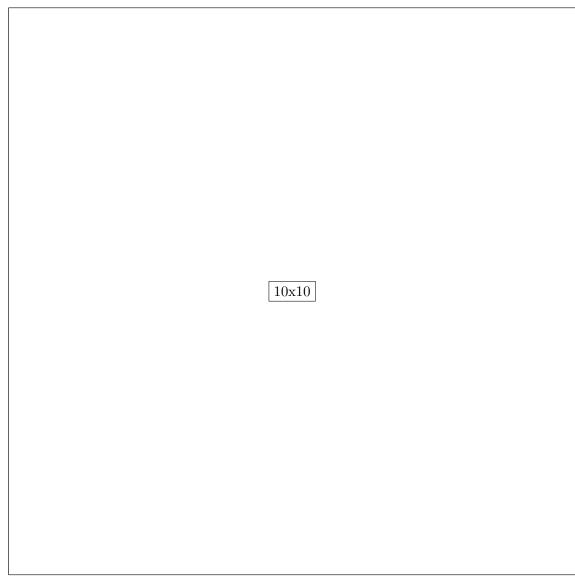
$$\begin{array}{l} w=8 \ , \ h=7 \ , \ x=2 \ , \ y=0 \ , \ v=56 \\ w=8 \ , \ h=3 \ , \ x=2 \ , \ y=7 \ , \ v=24 \\ w=2 \ , \ h=8 \ , \ x=0 \ , \ y=0 \ , \ v=16 \\ w=2 \ , \ h=2 \ , \ x=0 \ , \ y=8 \ , \ v=4 \end{array}$$



| 2x1 |     |       |
|-----|-----|-------|
| 2x2 |     | [8x3] |
| 1x7 | 3x7 | 6x7   |

$$\begin{array}{l} w=6\ ,\, h=7\ ,\, x=4\ ,\, y=0\ ,\, v=42\\ w=3\ ,\, h=7\ ,\, x=1\ ,\, y=0\ ,\, v=21\\ w=1\ ,\, h=7\ ,\, x=0\ ,\, y=0\ ,\, v=7\\ w=8\ ,\, h=3\ ,\, x=2\ ,\, y=7\ ,\, v=24\\ w=2\ ,\, h=2\ ,\, x=0\ ,\, y=7\ ,\, v=4\\ w=2\ ,\, h=1\ ,\, x=0\ ,\, y=9\ ,\, v=2 \end{array}$$





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

| 1x7 | 4x8 | $5\mathrm{x}8$ |
|-----|-----|----------------|
| 1x2 |     | 9x2            |

$$\begin{array}{l} w=9 \ , \ h=2 \ , \ x=1 \ , \ y=0 \ , \ v=18 \\ w=1 \ , \ h=2 \ , \ x=0 \ , \ y=0 \ , \ v=2 \\ w=5 \ , \ h=8 \ , \ x=5 \ , \ y=2 \ , \ v=40 \\ w=4 \ , \ h=8 \ , \ x=1 \ , \ y=2 \ , \ v=32 \\ w=1 \ , \ h=7 \ , \ x=0 \ , \ y=2 \ , \ v=7 \end{array}$$

| 2x4 |     | 8x4            |
|-----|-----|----------------|
| 2x6 | 3x6 | $5\mathrm{x}6$ |

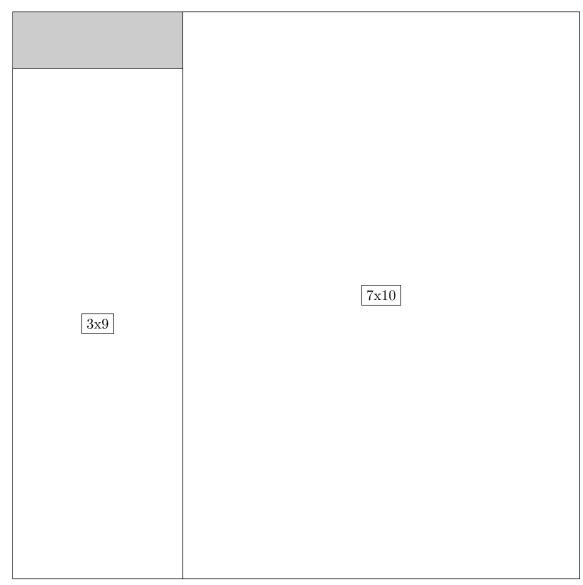
 $\begin{array}{l} w = 5 \ , \ h = 6 \ , \ x = 5 \ , \ y = 0 \ , \ v = 30 \\ w = 3 \ , \ h = 6 \ , \ x = 2 \ , \ y = 0 \ , \ v = 18 \\ w = 2 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 12 \\ w = 8 \ , \ h = 4 \ , \ x = 2 \ , \ y = 6 \ , \ v = 32 \end{array}$ 

w = 2, h = 4, x = 0, y = 6, v = 8

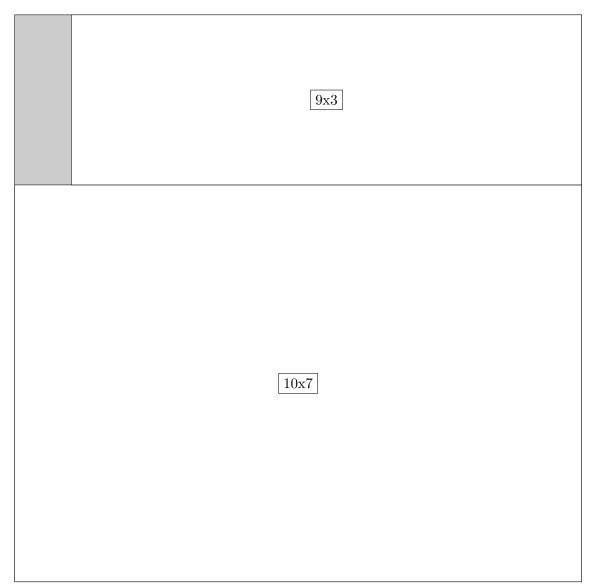
| 2x3 |    | [8x3] |     |
|-----|----|-------|-----|
| 43  | ×7 |       | 6x7 |
|     |    |       |     |

$$\begin{array}{l} w=6 \ , \, h=7 \ , \, x=4 \ , \, y=0 \ , \, v=42 \\ w=4 \ , \, h=7 \ , \, x=0 \ , \, y=0 \ , \, v=28 \\ w=8 \ , \, h=3 \ , \, x=2 \ , \, y=7 \ , \, v=24 \end{array}$$

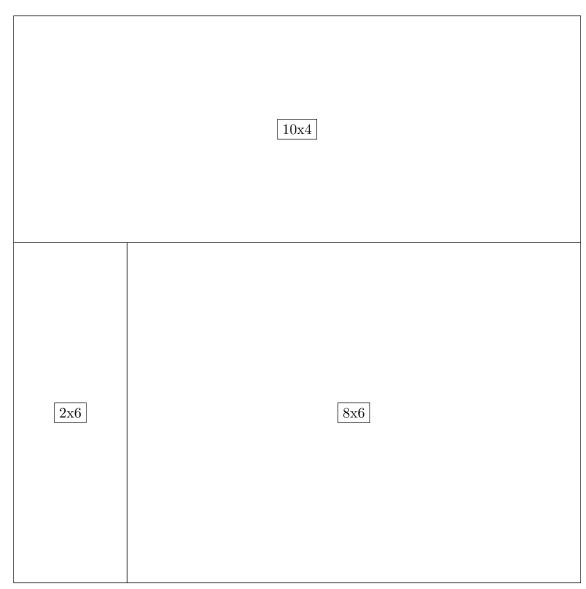
 $\mathbf{w}$  =2 , h =3 , x =0 , y =7 , v =6



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



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



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

| 1x2 | 3x2 | [6x2] |
|-----|-----|-------|
|     |     |       |
|     |     |       |
|     |     | 10x8  |
|     |     |       |

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

$$\mathbf{w}$$
 =6 , h =2 , x =4 , y =8 , v =12

$$\le 3$$
 , h =2 , x =1 , y =8 , v =6

$$\mathbf{w}$$
 =1 , h =2 , x =0 , y =8 , v =2