${\bf ClassName:}\ {\bf Class_01.2bp\text{-}38}$

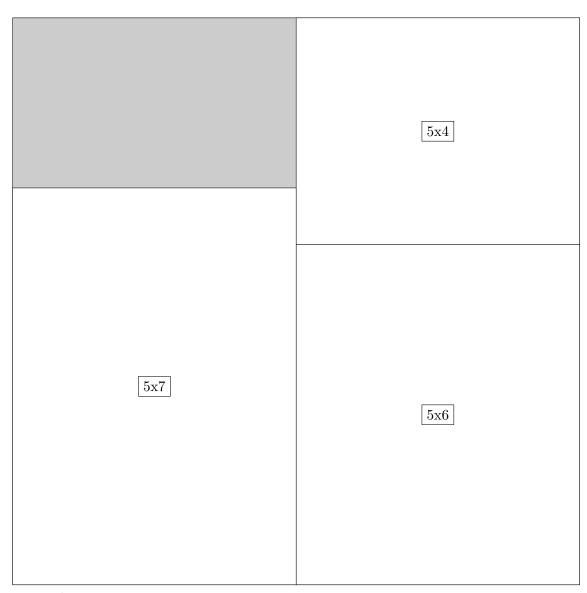
 $\begin{array}{ll} \text{BinSize: } \underline{\mathbf{10} \times \mathbf{10}} \\ \text{ReduceSize: } \underline{\mathbf{10} \times \mathbf{10}} \end{array}$

TypeNum: <u>61</u> Num: <u>80</u> OutS: <u>3000</u> InS: <u>2787</u> Rate: <u>0.929</u> UB: <u>30</u> LB: <u>30</u>

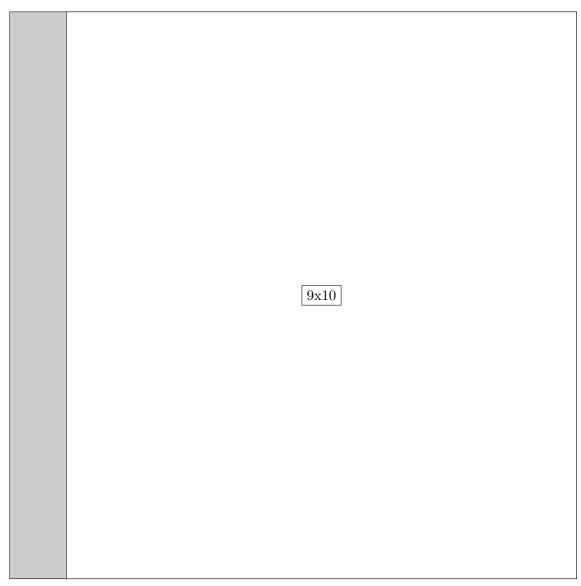
LBWithCut: $\underline{30}$ NodeCount: $\underline{0}$ PrimalNode: $\underline{0}$ ColumnCount: $\underline{30}$ TotalCutCount: $\underline{0}$ RootCutCount: $\underline{0}$ LPSolverCnt: $\underline{1}$ PricingSolverCnt: $\underline{0}$ BranchAndBoundNum: $\underline{1}$

isOpt: **true**

TimeOnPrimal: $\underline{0.000 \text{ s}}$ TimeOnPricing: $\underline{0.000 \text{ s}}$ TimeOnRmp: $\underline{0.078 \text{ s}}$ TotalTime: $\underline{0.219 \text{ s}}$



 $\begin{array}{l} w = 5 \ , \ h = 6 \ , \ x = 5 \ , \ y = 0 \ , \ v = 30 \\ w = 5 \ , \ h = 4 \ , \ x = 5 \ , \ y = 6 \ , \ v = 20 \\ w = 5 \ , \ h = 7 \ , \ x = 0 \ , \ y = 0 \ , \ v = 35 \end{array}$



 $\le =9$, h =10 , x =1 , y =0 , v =90



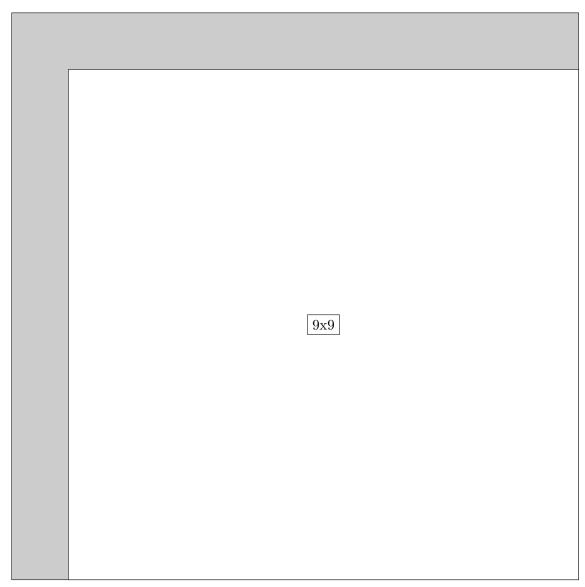
$$w = 10$$
, $h = 5$, $x = 0$, $y = 0$, $v = 50$

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

$$\mathbf{w}$$
 =4 , h =3 , x =1 , y =5 , v =12

$$\mathbf{w}$$
 =1 , h =2 , x =0 , y =5 , v =2

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



 \mathbf{w} =9 , h =9 , x =1 , y =0 , v =81

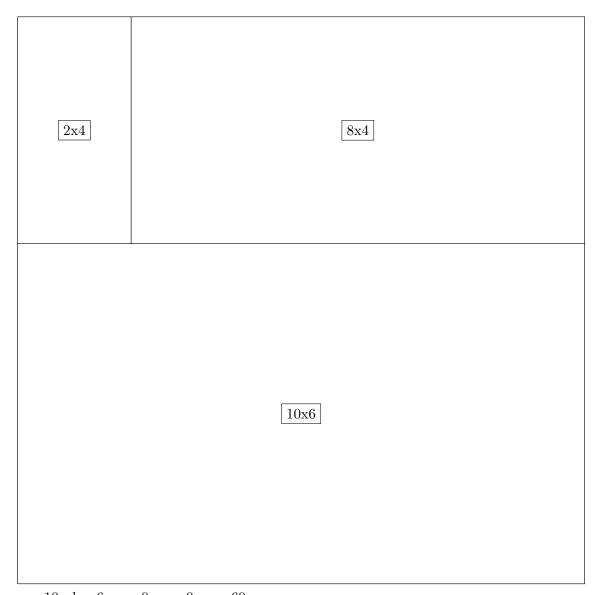
	6x2
4x10	6x4
	6x4

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

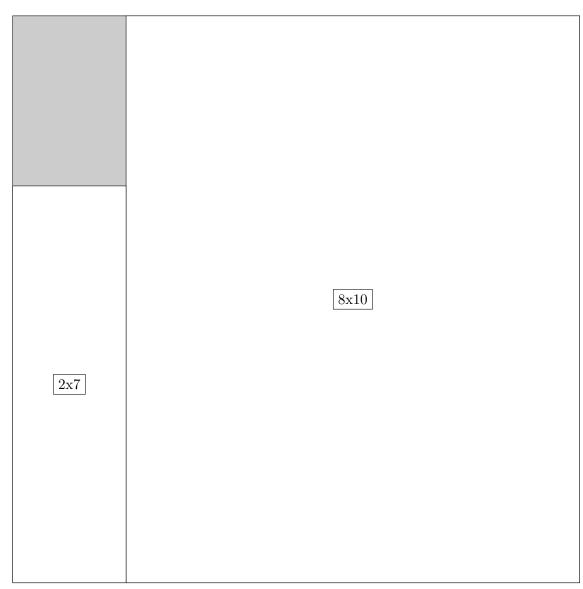
 \mathbf{w} =6 , h =4 , x =4 , y =4 , v =24

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

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



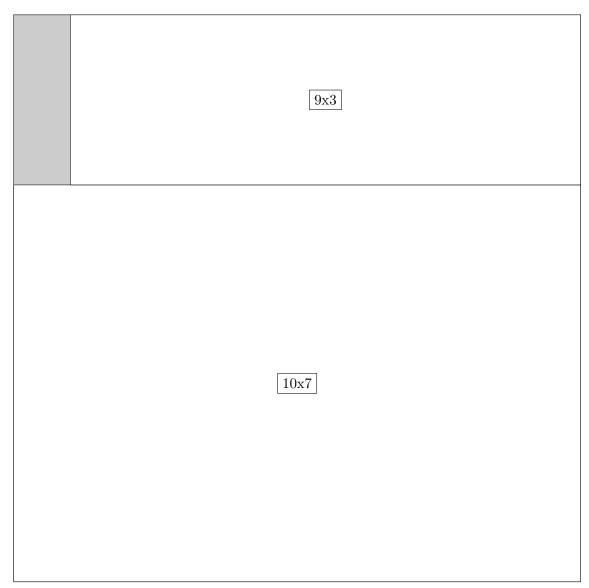
$$\begin{array}{l} w = & 10 \ , \ h = & 6 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 60 \\ w = & 8 \ , \ h = & 4 \ , \ x = & 2 \ , \ y = & 6 \ , \ v = & 32 \\ w = & 2 \ , \ h = & 4 \ , \ x = & 0 \ , \ y = & 6 \ , \ v = & 8 \end{array}$$



w =8, h =10, x =2, y =0, v =80 w =2, h =7, x =0, y =0, v =14

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





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

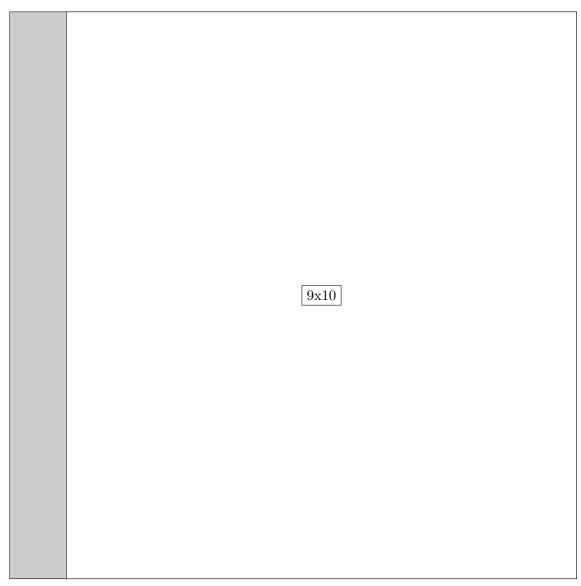
	2x5	$6\mathrm{x}5$	
1x5		9x5	

 $\begin{array}{l} w = 9 \ , \ h = 5 \ , \ x = 1 \ , \ y = 0 \ , \ v = 45 \\ w = 1 \ , \ h = 5 \ , \ x = 0 \ , \ y = 0 \ , \ v = 5 \\ w = 6 \ , \ h = 5 \ , \ x = 4 \ , \ y = 5 \ , \ v = 30 \\ w = 2 \ , \ h = 5 \ , \ x = 2 \ , \ y = 5 \ , \ v = 10 \end{array}$



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



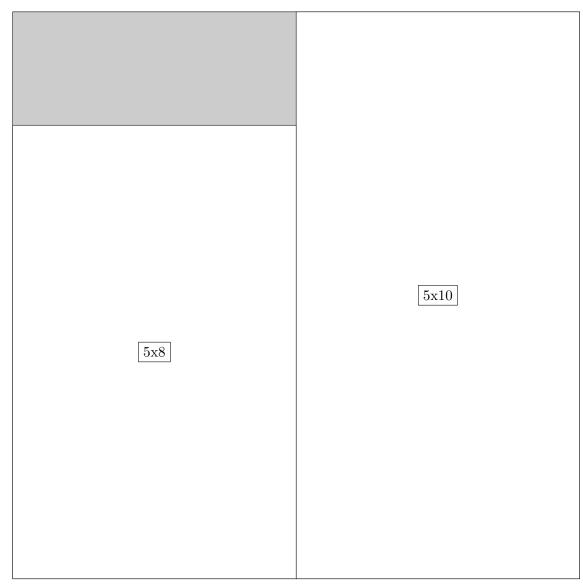


 $\le =9$, h =10 , x =1 , y =0 , v =90

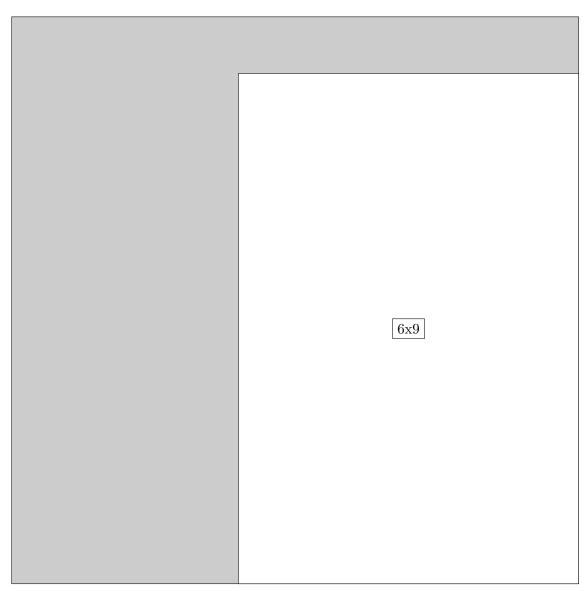
		6x2
1x10	3x10	6x8

 $\begin{array}{l} w = 6 \ , \ h = 8 \ , \ x = 4 \ , \ y = 0 \ , \ v = 48 \\ w = 6 \ , \ h = 2 \ , \ x = 4 \ , \ y = 8 \ , \ v = 12 \\ w = 3 \ , \ h = 10 \ , \ x = 1 \ , \ y = 0 \ , \ v = 30 \end{array}$

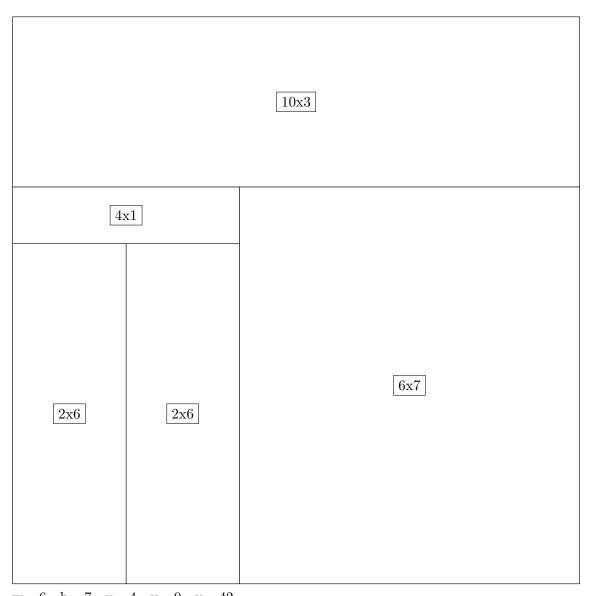
 $\mathbf{w} = \! 1$, $\mathbf{h} = \! 10$, $\mathbf{x} = \! 0$, $\mathbf{y} = \! 0$, $\mathbf{v} = \! 10$



w =5, h =10, x =5, y =0, v =50 w =5, h =8, x =0, y =0, v =40



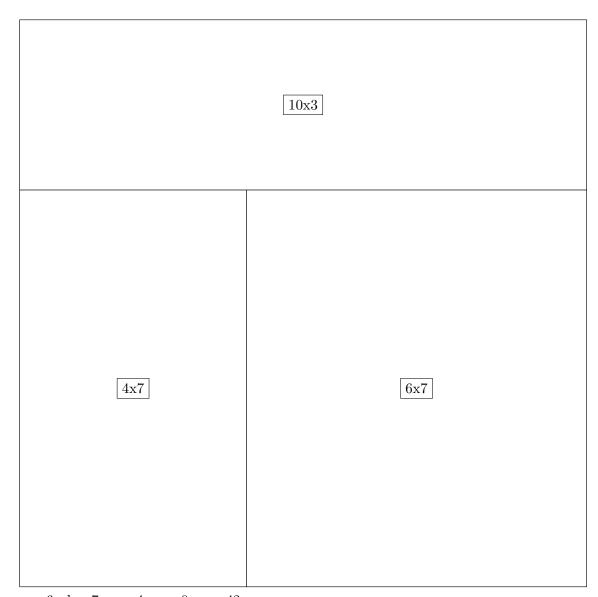
 \mathbf{w} =6 , h =9 , x =4 , y =0 , v = 54



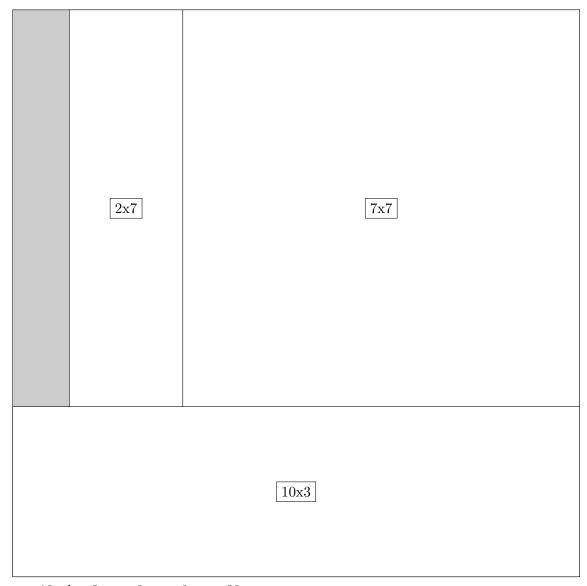
$$\begin{array}{l} w = 6 \ , \ h = 7 \ , \ x = 4 \ , \ y = 0 \ , \ v = 42 \\ w = 2 \ , \ h = 6 \ , \ x = 2 \ , \ y = 0 \ , \ v = 12 \\ w = 2 \ , \ h = 6 \ , \ x = 0 \ , \ y = 0 \ , \ v = 12 \end{array}$$

 \mathbf{w} =4 , h =1 , x =0 , y =6 , v =4

 \mathbf{w} =10 , h =3 , x =0 , y =7 , v =30



$$\begin{array}{l} w = 6 \;,\; h = 7 \;,\; x = 4 \;,\; y = 0 \;,\; v = 42 \\ w = 4 \;,\; h = 7 \;,\; x = 0 \;,\; y = 0 \;,\; v = 28 \\ w = 10 \;,\; h = 3 \;,\; x = 0 \;,\; y = 7 \;,\; v = 30 \end{array}$$

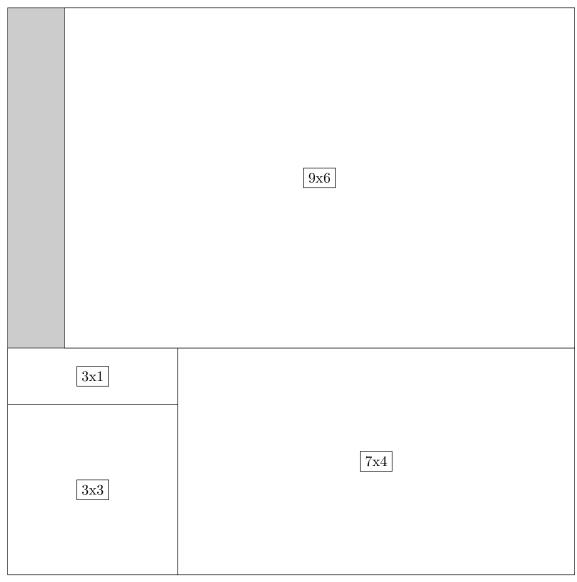


 $\begin{array}{l} w = \! 10 \ , \ h = \! 3 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 30 \\ w = \! 7 \ , \ h = \! 7 \ , \ x = \! 3 \ , \ y = \! 3 \ , \ v = \! 49 \end{array}$

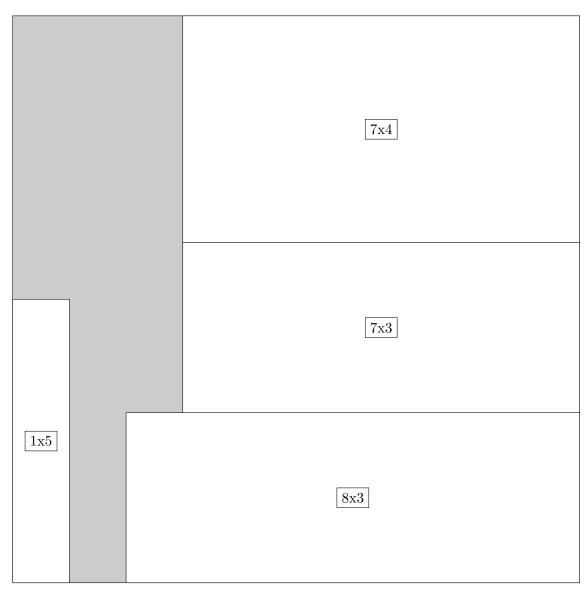
 \mathbf{w} =2 , h =7 , x =1 , y =3 , v = 14

1x9	3x9	6x9

 $\begin{array}{l} w = 6 \ , \, h = 9 \ , \, x = 4 \ , \, y = 0 \ , \, v = 54 \\ w = 3 \ , \, h = 9 \ , \, x = 1 \ , \, y = 0 \ , \, v = 27 \\ w = 1 \ , \, h = 9 \ , \, x = 0 \ , \, y = 0 \ , \, v = 9 \end{array}$



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

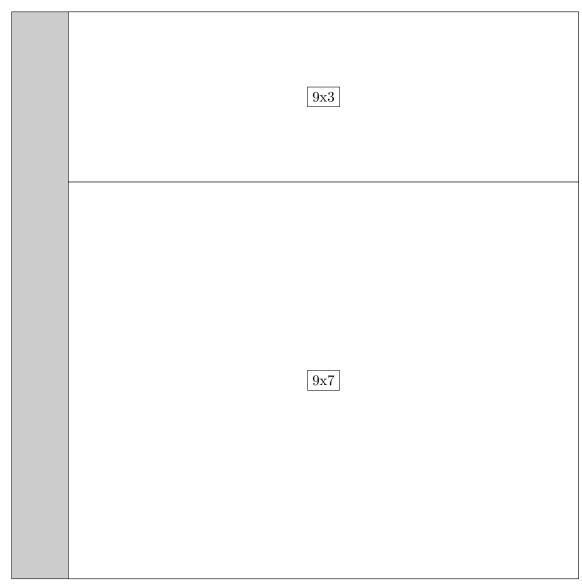


w = 8, h = 3, x = 2, y = 0, v = 24

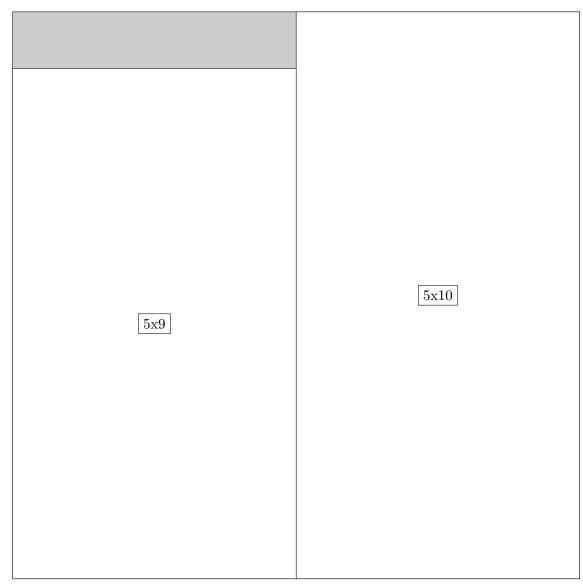
 \mathbf{w} =7 , h =3 , x =3 , y =3 , v =21

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

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



$$\begin{array}{c} w = 9 \ , \ h = 7 \ , \ x = 1 \ , \ y = 0 \ , \ v = 63 \\ w = 9 \ , \ h = 3 \ , \ x = 1 \ , \ y = 7 \ , \ v = 27 \end{array}$$

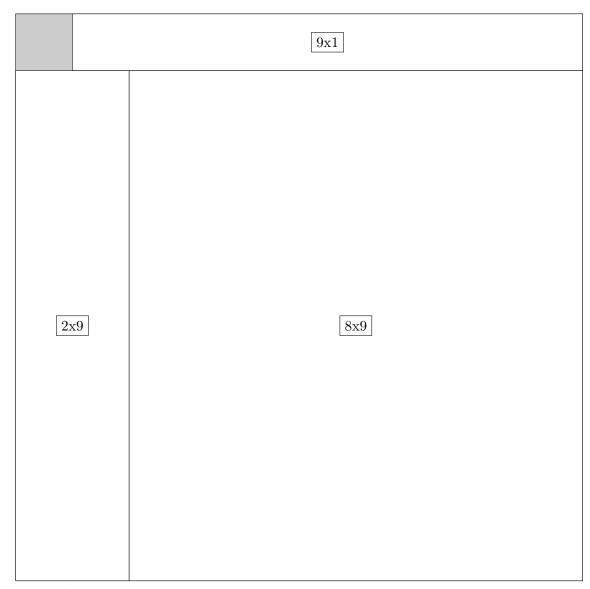


w =5, h =10, x =5, y =0, v =50 w =5, h =9, x =0, y =0, v =45

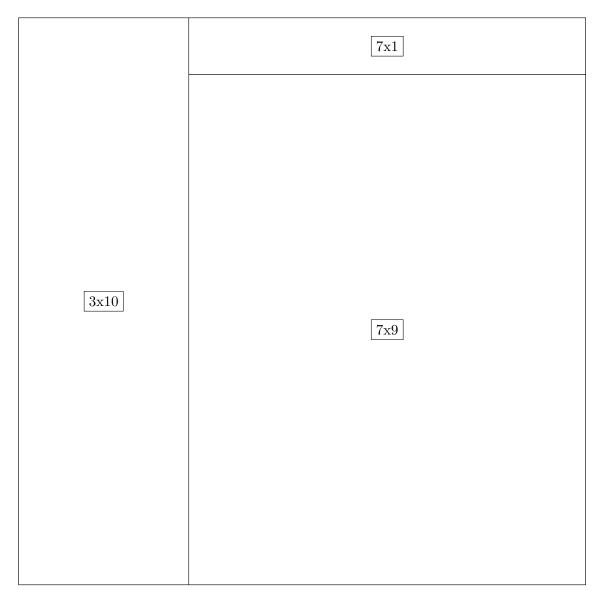
		2x1
[4x9]	$\boxed{6\mathrm{x}9}$	

 $\begin{array}{l} w = 6 \ , \ h = 9 \ , \ x = 4 \ , \ y = 0 \ , \ v = 54 \\ w = 2 \ , \ h = 1 \ , \ x = 8 \ , \ y = 9 \ , \ v = 2 \end{array}$

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



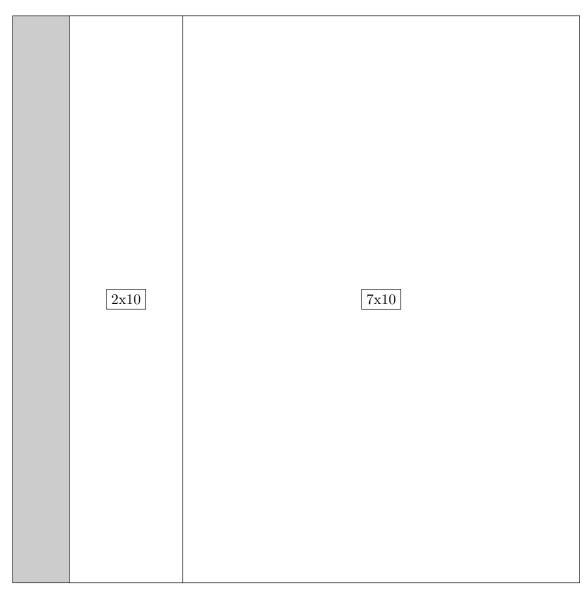
$$\begin{array}{l} w = 8 \ , \ h = 9 \ , \ x = 2 \ , \ y = 0 \ , \ v = 72 \\ w = 2 \ , \ h = 9 \ , \ x = 0 \ , \ y = 0 \ , \ v = 18 \\ w = 9 \ , \ h = 1 \ , \ x = 1 \ , \ y = 9 \ , \ v = 9 \end{array}$$



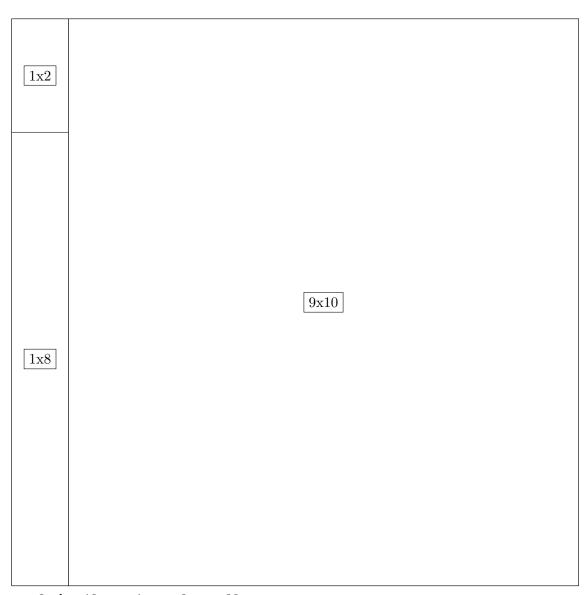
$$\mathbf{w}$$
 =7 , h =9 , x =3 , y =0 , v =63

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

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



 $\begin{array}{c} w = 7 \ , \ h = 10 \ , \ x = 3 \ , \ y = 0 \ , \ v = 70 \\ w = 2 \ , \ h = 10 \ , \ x = 1 \ , \ y = 0 \ , \ v = 20 \end{array}$



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