${\bf ClassName:}\ {\bf Class_03.2bp\text{-}39}$

BinSize: $\underline{40 \times 40}$ ReduceSize: $\underline{40 \times 40}$

TypeNum: <u>79</u> Num: <u>80</u> OutS: <u>28800</u> InS: <u>25943</u> Rate: <u>0.901</u> UB: <u>18</u> LB0: <u>18</u> LB: <u>18</u>

LBWithCut: $\underline{\mathbf{18}}$ NodeCut: $\underline{\mathbf{0}}$

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

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{18}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

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

 $\begin{array}{ll} {\rm TimeOnInitSolution:} \ \underline{\bf 4.850 \ s} \\ {\rm TimeOnPrimal:} \ \underline{\bf 0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{\bf 0.000 \ s} \\ {\rm TimeOnRmp:} \ \underline{\bf 0.062 \ s} \\ {\rm TotalTime:} \ \underline{\bf 4.991 \ s} \end{array}$

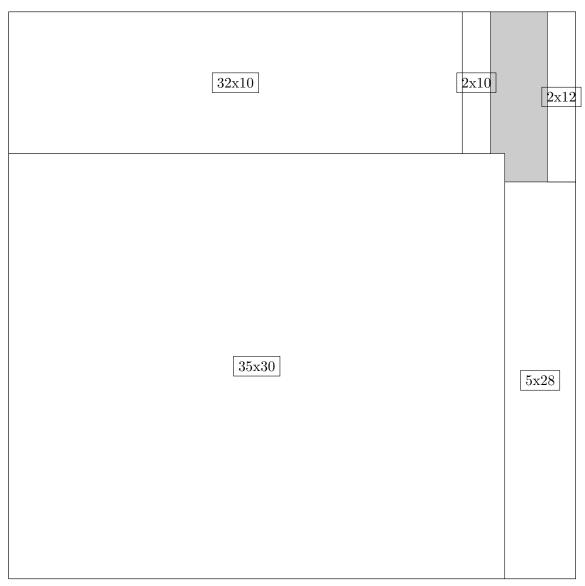
22x4	
32x3	8x3
34x33	

$$\mathbf{w}$$
 =34 , h =33 , x =0 , y =0 , v =1122

$$\le =32$$
 , h =3 , x =0 , y =33 , v =96

$$\le =22$$
 , h =4 , x =0 , y =36 , v =88

$$w=8$$
 , $h=3$, $x=32$, $y=33$, $v=24$

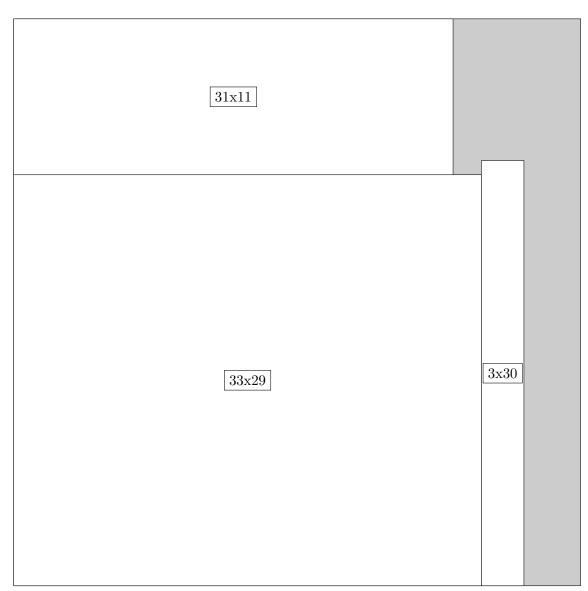


 $w=\!35$, $h=\!30$, $x=\!0$, $y=\!0$, $v=\!1050$

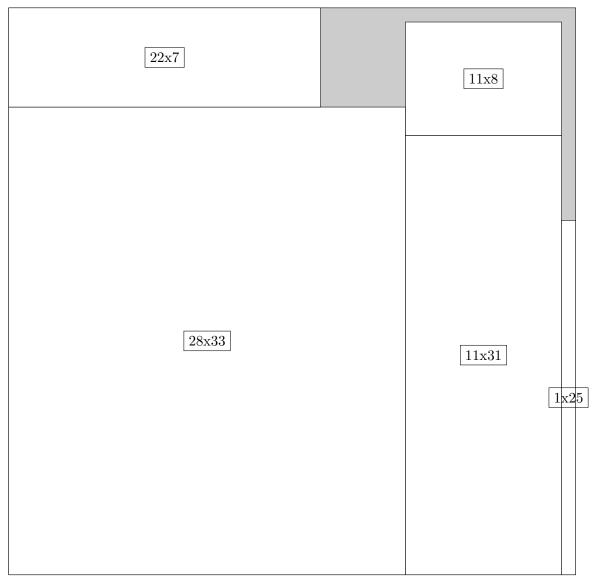
 $\le =32$, h =10 , x =0 , y =30 , v =320 ≤ 5 , h = 28 , x = 35 , y = 0 , v = 140

 \mathbf{w} =2 , h =12 , x =38 , y =28 , v =24

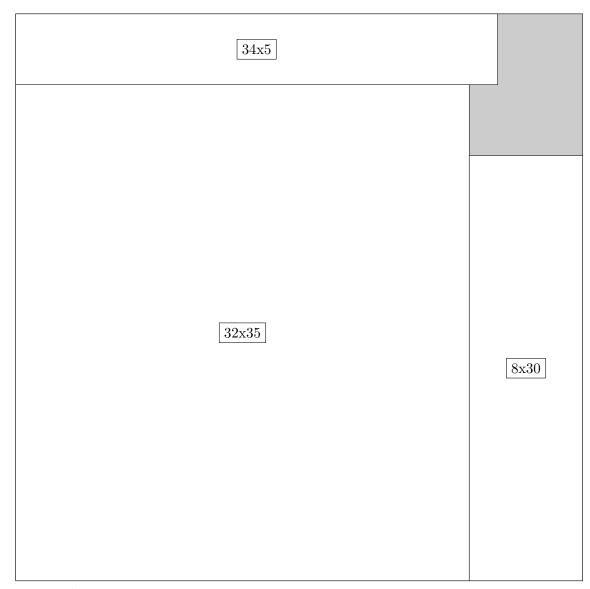
w=2 , $h=\!10$, $x=\!32$, $y=\!30$, $v=\!20$



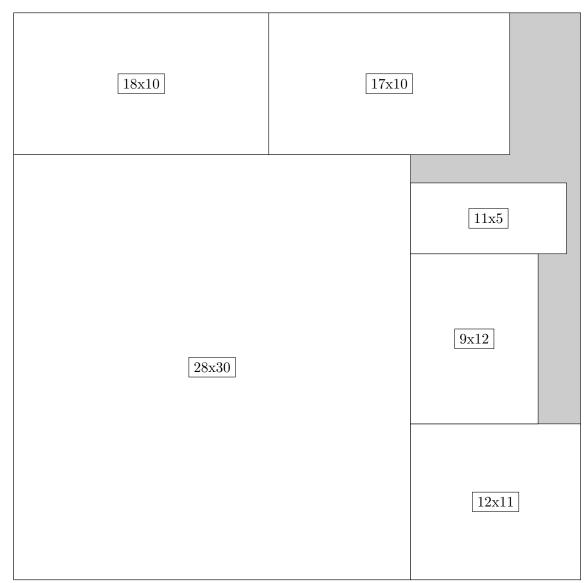
$$\begin{array}{l} w = \! 33 \; , \; h = \! 29 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 957 \\ w = \! 31 \; , \; h = \! 11 \; , \; x = \! 0 \; , \; y = \! 29 \; , \; v = \! 341 \\ w = \! 3 \; , \; h = \! 30 \; , \; x = \! 33 \; , \; y = \! 0 \; , \; v = \! 90 \end{array}$$



 $\begin{array}{l} w=28 \;,\, h=33 \;,\, x=0 \;,\, y=0 \;,\, v=924 \\ w=11 \;,\, h=31 \;,\, x=28 \;,\, y=0 \;,\, v=341 \\ w=22 \;,\, h=7 \;,\, x=0 \;,\, y=33 \;,\, v=154 \\ w=11 \;,\, h=8 \;,\, x=28 \;,\, y=31 \;,\, v=88 \\ w=1 \;,\, h=25 \;,\, x=39 \;,\, y=0 \;,\, v=25 \end{array}$



$$\begin{array}{l} w = & 32 \;,\; h = & 35 \;,\; x = & 0 \;,\; y = & 0 \;,\; v = & 1120 \\ w = & 8 \;,\; h = & 30 \;,\; x = & 32 \;,\; y = & 0 \;,\; v = & 240 \\ w = & 34 \;,\; h = & 5 \;,\; x = & 0 \;,\; y = & 35 \;,\; v = & 170 \end{array}$$



$$\le =28$$
 , h =30 , x =0 , y =0 , v =840

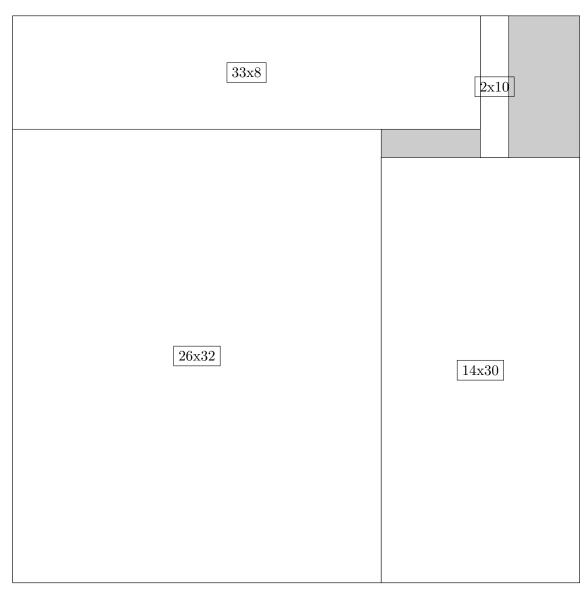
$$\le =18$$
 , h =10 , x =0 , y =30 , v =180

$$\le =17$$
 , h =10 , x =18 , y =30 , v =170

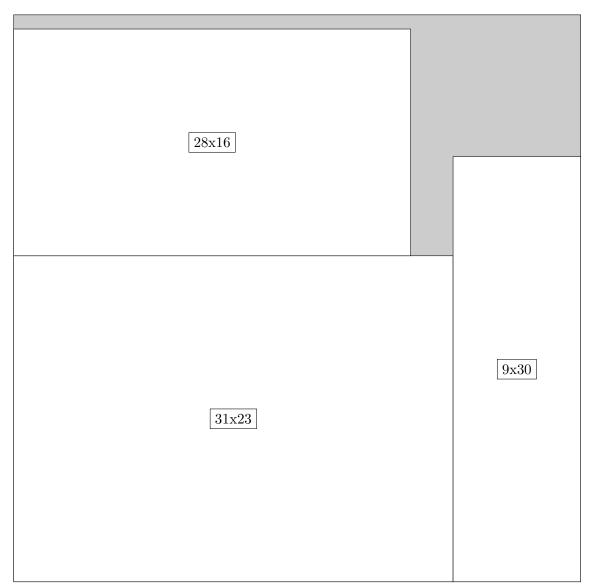
$$\le =12$$
 , $h=11$, $x=28$, $y=0$, $v=132$

$$\mathbf{w}$$
 =9 , h =12 , x =28 , y =11 , v =108

$$w$$
 =11 , h =5 , x =28 , y =23 , v =55



$$\begin{array}{l} w=26 \ , \ h=32 \ , \ x=0 \ , \ y=0 \ , \ v=832 \\ w=14 \ , \ h=30 \ , \ x=26 \ , \ y=0 \ , \ v=420 \\ w=33 \ , \ h=8 \ , \ x=0 \ , \ y=32 \ , \ v=264 \\ w=2 \ , \ h=10 \ , \ x=33 \ , \ y=30 \ , \ v=20 \end{array}$$



 $\begin{array}{l} w = & 31 \; , \; h = & 23 \; , \; x = 0 \; , \; y = & 0 \; , \; v = & 713 \\ w = & 28 \; , \; h = & 16 \; , \; x = & 0 \; , \; y = & 23 \; , \; v = & 448 \\ w = & 9 \; , \; h = & 30 \; , \; x = & 31 \; , \; y = & 0 \; , \; v = & 270 \end{array}$

20x1	
29x6	10x6
[30x4]	
30x29	10x34

$$\le =30$$
 , $\ge =29$, $\ge =0$, $\ge =0$, $\ge =870$

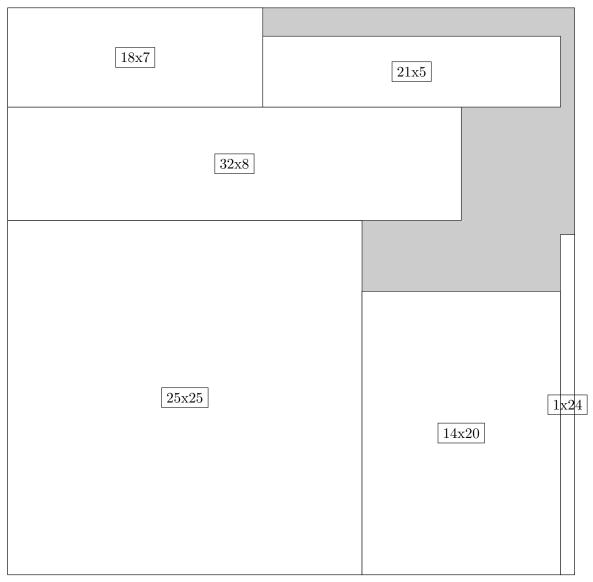
$$w = 29$$
, $h = 6$, $x = 0$, $y = 33$, $v = 174$

$$\le =10$$
 , $h=34$, $x=30$, $y=0$, $v=340$

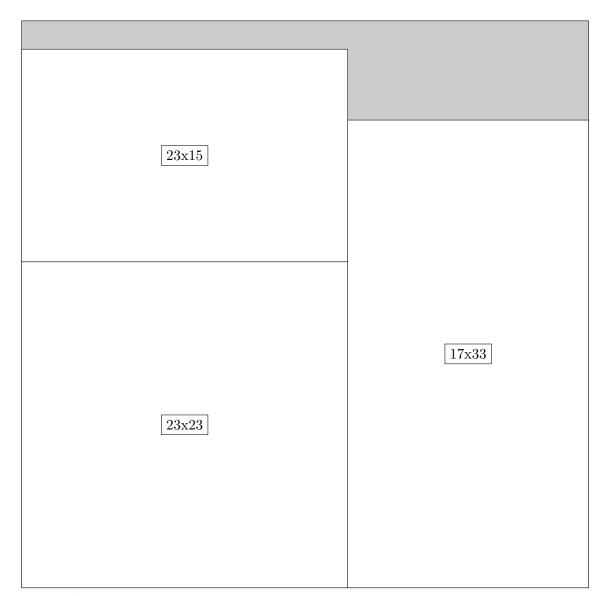
$$\le =30$$
 , h =4 , x =0 , y =29 , v =120

$$\le =10$$
 , h =6 , x =30 , y =34 , v =60

$$\le =20$$
 , h =1 , x =0 , y =39 , v =20

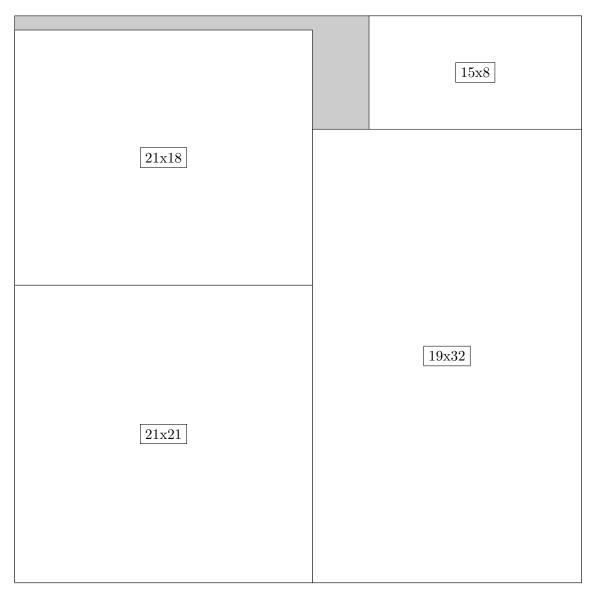


$$\begin{array}{l} w = 25 \;,\; h = 25 \;,\; x = 0 \;,\; y = 0 \;,\; v = 625 \\ w = 14 \;,\; h = 20 \;,\; x = 25 \;,\; y = 0 \;,\; v = 280 \\ w = 32 \;,\; h = 8 \;,\; x = 0 \;,\; y = 25 \;,\; v = 256 \\ w = 18 \;,\; h = 7 \;,\; x = 0 \;,\; y = 33 \;,\; v = 126 \\ w = 1 \;,\; h = 24 \;,\; x = 39 \;,\; y = 0 \;,\; v = 24 \\ w = 21 \;,\; h = 5 \;,\; x = 18 \;,\; y = 33 \;,\; v = 105 \end{array}$$



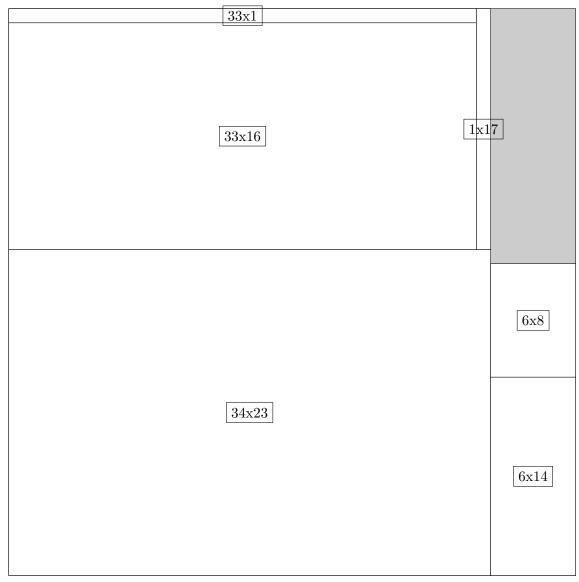
$$\begin{array}{l} w = \! 17 \; , \; h = \! 33 \; , \; x = \! 23 \; , \; y = \! 0 \; , \; v = \! 561 \\ w = \! 23 \; , \; h = \! 23 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 529 \end{array}$$

$$w = 23$$
, $h = 15$, $x = 0$, $y = 23$, $v = 345$

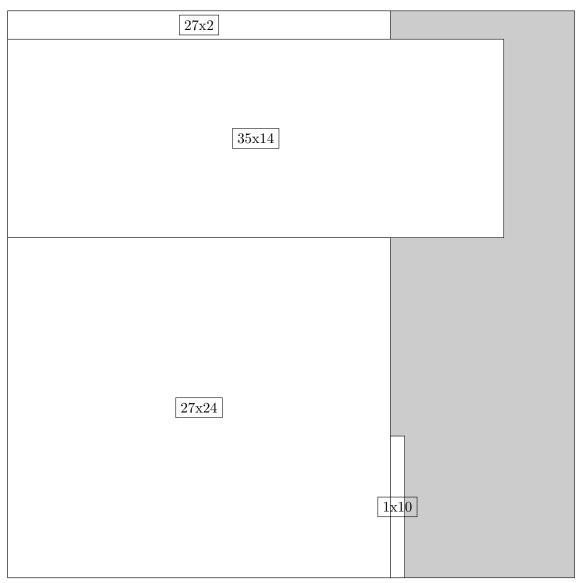


$$\begin{array}{l} w = & 19 \ , \ h = & 32 \ , \ x = & 21 \ , \ y = & 0 \ , \ v = & 608 \\ w = & 21 \ , \ h = & 21 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 441 \end{array}$$

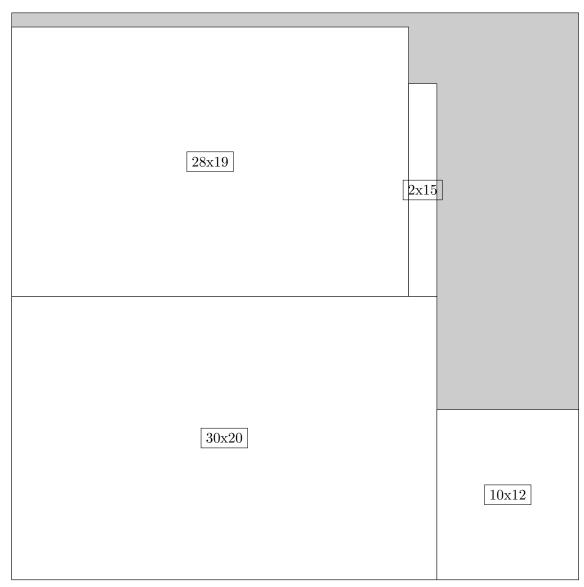
$$w = 21$$
, $h = 18$, $x = 0$, $y = 21$, $v = 378$



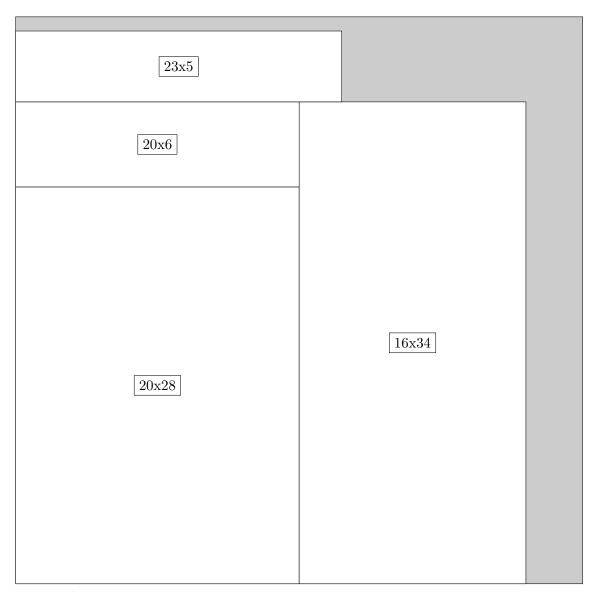
$$\begin{array}{l} w = \! 34 \;,\; h = \! 23 \;,\; x = \! 0 \;,\; y = \! 0 \;,\; v = \! 782 \\ w = \! 33 \;,\; h = \! 16 \;,\; x = \! 0 \;,\; y = \! 23 \;,\; v = \! 528 \\ w = \! 6 \;,\; h = \! 14 \;,\; x = \! 34 \;,\; y = \! 0 \;,\; v = \! 84 \\ w = \! 6 \;,\; h = \! 8 \;,\; x = \! 34 \;,\; y = \! 14 \;,\; v = \! 48 \\ w = \! 33 \;,\; h = \! 1 \;,\; x = \! 0 \;,\; y = \! 39 \;,\; v = \! 33 \\ w = \! 1 \;,\; h = \! 17 \;,\; x = \! 33 \;,\; y = \! 23 \;,\; v = \! 17 \end{array}$$



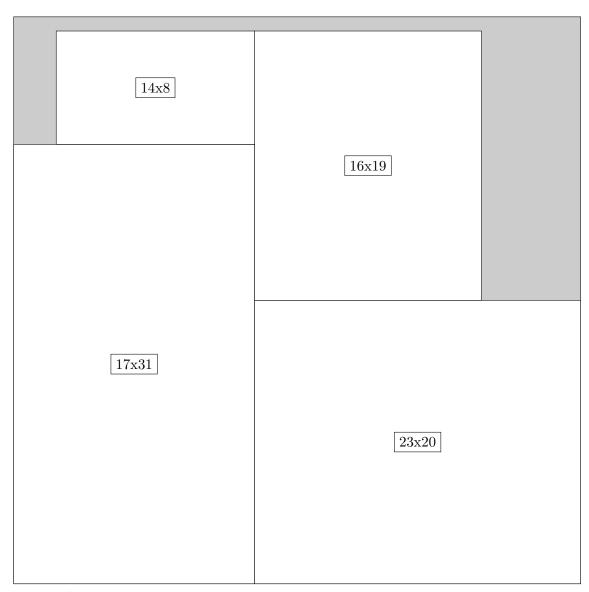
$$\begin{array}{l} w = 27 \; , \; h = 24 \; , \; x = 0 \; , \; y = 0 \; , \; v = 648 \\ w = 35 \; , \; h = 14 \; , \; x = 0 \; , \; y = 24 \; , \; v = 490 \\ w = 27 \; , \; h = 2 \; , \; x = 0 \; , \; y = 38 \; , \; v = 54 \\ w = 1 \; , \; h = 10 \; , \; x = 27 \; , \; y = 0 \; , \; v = 10 \end{array}$$



 $\begin{array}{l} w = & 30 \ , \ h = & 20 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 600 \\ w = & 28 \ , \ h = & 19 \ , \ x = & 0 \ , \ y = & 20 \ , \ v = & 532 \\ w = & 10 \ , \ h = & 12 \ , \ x = & 30 \ , \ y = & 0 \ , \ v = & 120 \\ w = & 2 \ , \ h = & 15 \ , \ x = & 28 \ , \ y = & 20 \ , \ v = & 30 \end{array}$



$$\begin{array}{l} w = 20 \ , \ h = 28 \ , \ x = 0 \ , \ y = 0 \ , \ v = 560 \\ w = 16 \ , \ h = 34 \ , \ x = 20 \ , \ y = 0 \ , \ v = 544 \\ w = 20 \ , \ h = 6 \ , \ x = 0 \ , \ y = 28 \ , \ v = 120 \\ w = 23 \ , \ h = 5 \ , \ x = 0 \ , \ y = 34 \ , \ v = 115 \end{array}$$

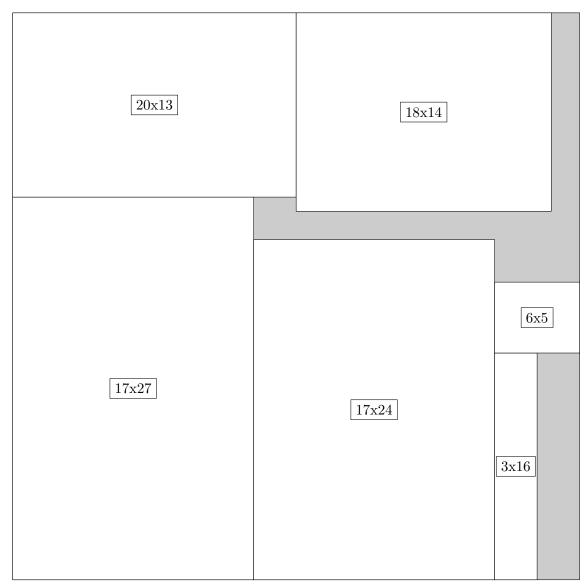


$$\le =17$$
 , h =31 , x =0 , y =0 , v =527

$$\le =23$$
 , h =20 , x =17 , y =0 , v =460

$$\le =16$$
 , h =19 , x =17 , y =20 , v =304

$$\le =14$$
 , h =8 , x =3 , y =31 , v =112



$$w = 17 \; , \; h = 27 \; , \; x = 0 \; , \; y = 0 \; , \; v = 459$$

$$\le =17$$
 , $h=24$, $x=17$, $y=0$, $v=408$

$$\le =20$$
 , $h=13$, $x=0$, $y=27$, $v=260$

$$\le =18$$
 , h =14 , x =20 , y =26 , v =252

$$\mathbf{w}$$
 =3 , h =16 , x =34 , y =0 , v =48

$$\mathbf{w}=\!6$$
 , $\mathbf{h}=\!\!5$, $\mathbf{x}=\!\!34$, $\mathbf{y}=\!\!16$, $\mathbf{v}=\!\!30$