$ClassName: \ Class_03.2bp\text{-}34$

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

TypeNum: <u>77</u> Num: <u>80</u> OutS: <u>27200</u> InS: <u>24958</u> Rate: <u>0.918</u> UB: <u>17</u> LB0: <u>16</u> LB: <u>17</u>

LBWithCut: $\underline{17}$ NodeCut: $\underline{0}$

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

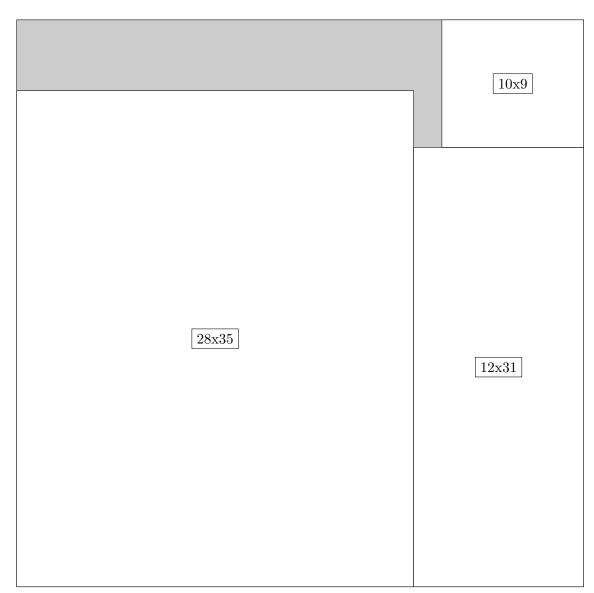
GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{288}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{272}}$ PricingSolverCnt: $\underline{\mathbf{272}}$

BranchAndBoundNum: 1

is Opt: $\underline{\mathbf{true}}$

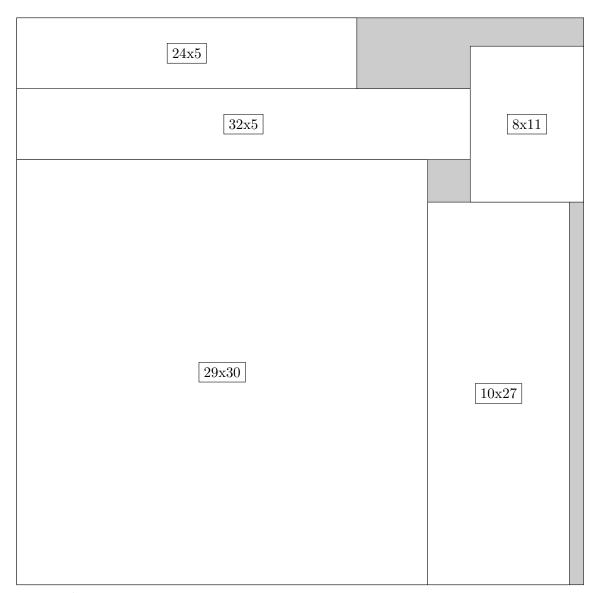
TimeOnInitSolution: $\underline{120.010 \text{ s}}$

 $\begin{array}{ll} {\rm TimeOnPrimal:} \ \underline{0.000 \ s} \\ {\rm TimeOnPricing:} \ \underline{562.436 \ s} \\ {\rm TimeOnRmp:} \ \underline{0.310 \ s} \\ {\rm TotalTime:} \ 682.896 \ s \end{array}$



$$\begin{array}{l} w = \! 28 \ , \ h = \! 35 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 980 \\ w = \! 12 \ , \ h = \! 31 \ , \ x = \! 28 \ , \ y = \! 0 \ , \ v = \! 372 \end{array}$$

$$w = 10$$
 , $h = 9$, $x = 30$, $y = 31$, $v = 90$



$$\begin{array}{l} w=29 \ , \ h=30 \ , \ x=0 \ , \ y=0 \ , \ v=870 \\ w=10 \ , \ h=27 \ , \ x=29 \ , \ y=0 \ , \ v=270 \\ w=32 \ , \ h=5 \ , \ x=0 \ , \ y=30 \ , \ v=160 \\ w=24 \ , \ h=5 \ , \ x=0 \ , \ y=35 \ , \ v=120 \\ w=8 \ , \ h=11 \ , \ x=32 \ , \ y=27 \ , \ v=88 \end{array}$$

9x3		
[13x10]	27x13	
		9x12
	31x27	9x15

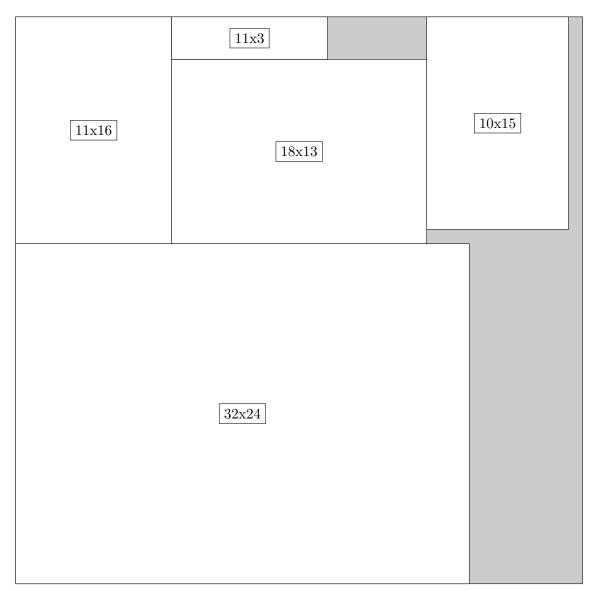
$$\begin{array}{c} w = \!\! 27 \ , \ h = \!\! 13 \ , \ x = \!\! 13 \ , \ y = \!\! 27 \ , \ v = \!\! 351 \\ w = \!\! 31 \ , \ h = \!\! 27 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 837 \end{array}$$

$$\le =9$$
 , h =15 , x =31 , y =0 , v =135

$$\mathbf{w}$$
 =13 , h =10 , x =0 , y =27 , v =130

$$\le =9$$
 , h =12 , x =31 , y =15 , v =108

$$w=9$$
 , $h=3$, $x=\!4$, $y=\!37$, $v=\!27$



$$w = 32$$
, $h = 24$, $x = 0$, $y = 0$, $v = 768$

$$\le =18$$
 , h =13 , x =11 , y =24 , v =234

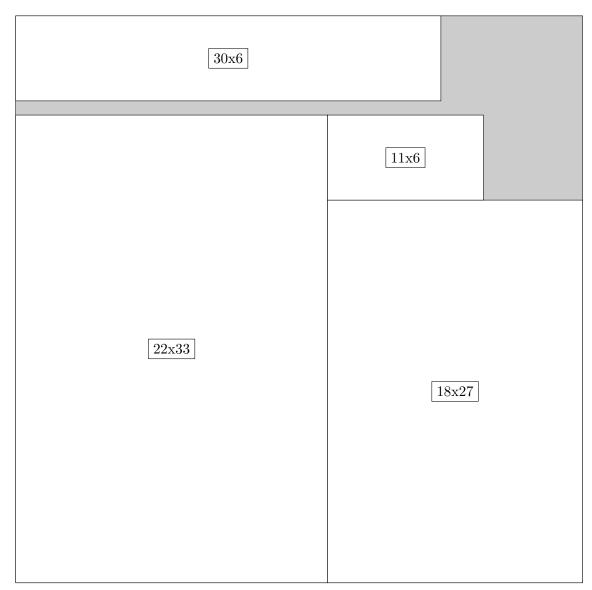
$$\le =11$$
 , h =16 , x =0 , y =24 , v =176

$$\le =10$$
 , h =15 , x =29 , y =25 , v =150

$$\le =11$$
 , h =3 , x =11 , y =37 , v =33

	35x12	
26:	x28	14x28

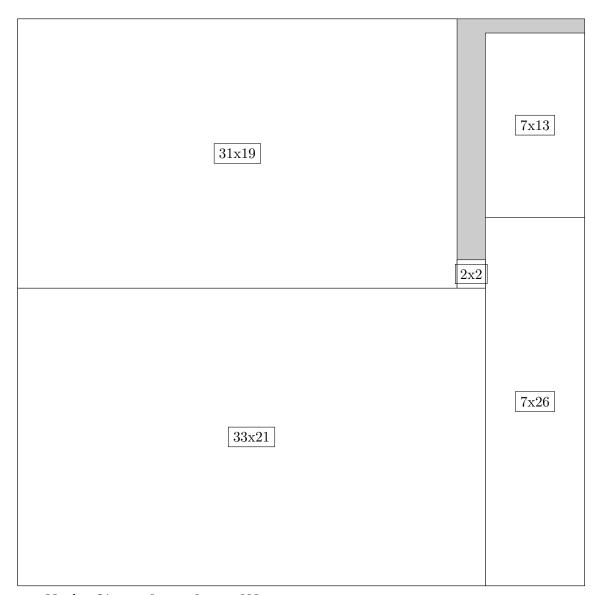
$$\begin{array}{l} w = 26 \ , \ h = 28 \ , \ x = 0 \ , \ y = 0 \ , \ v = 728 \\ w = 35 \ , \ h = 12 \ , \ x = 5 \ , \ y = 28 \ , \ v = 420 \\ w = 14 \ , \ h = 28 \ , \ x = 26 \ , \ y = 0 \ , \ v = 392 \end{array}$$



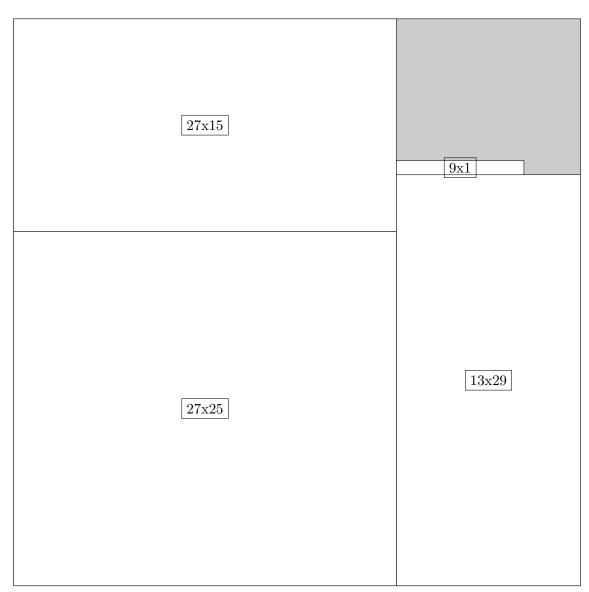
$$w = 22$$
, $h = 33$, $x = 0$, $y = 0$, $v = 726$

$$\le =30$$
 , h =6 , x =0 , y =34 , v =180

$$\mathbf{w}$$
 =11 , h =6 , x =22 , y =27 , v =66

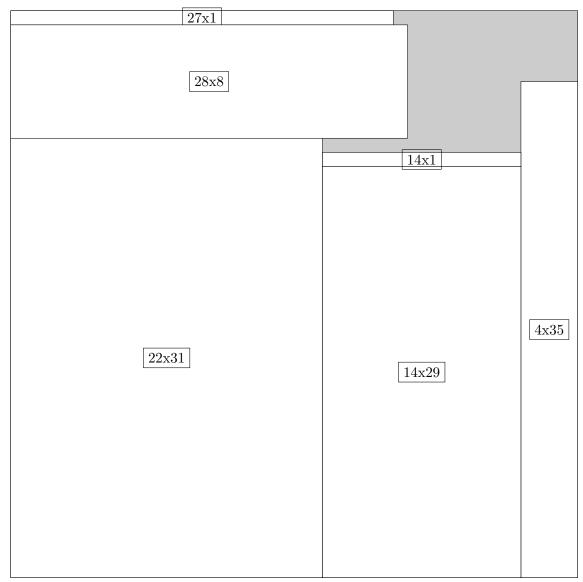


 $\begin{array}{l} w = 33 \; , \; h = 21 \; , \; x = 0 \; , \; y = 0 \; , \; v = 693 \\ w = 31 \; , \; h = 19 \; , \; x = 0 \; , \; y = 21 \; , \; v = 589 \\ w = 7 \; , \; h = 26 \; , \; x = 33 \; , \; y = 0 \; , \; v = 182 \\ w = 7 \; , \; h = 13 \; , \; x = 33 \; , \; y = 26 \; , \; v = 91 \\ w = 2 \; , \; h = 2 \; , \; x = 31 \; , \; y = 21 \; , \; v = 4 \end{array}$

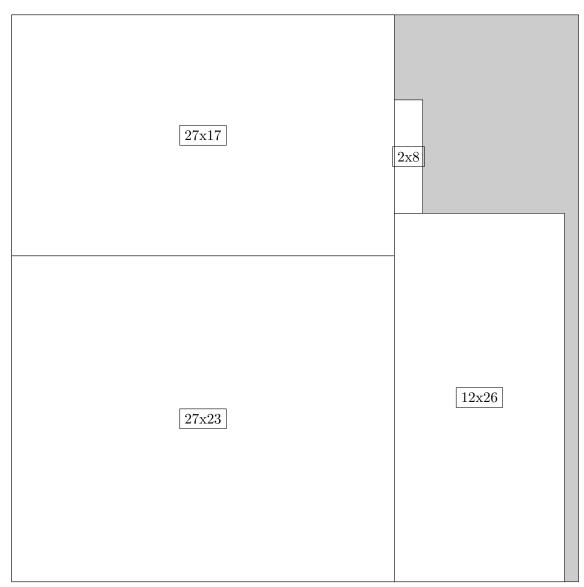


$$\begin{array}{l} w = \! 27 \ , \ h = \! 15 \ , \ x = \! 0 \ , \ y = \! 25 \ , \ v = \! 405 \\ w = \! 13 \ , \ h = \! 29 \ , \ x = \! 27 \ , \ y = \! 0 \ , \ v = \! 377 \end{array}$$

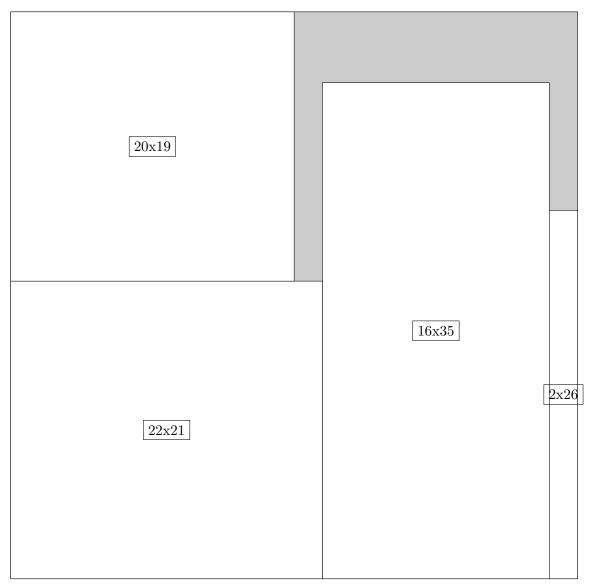
$$w = 27$$
, $h = 25$, $x = 0$, $y = 0$, $v = 675$



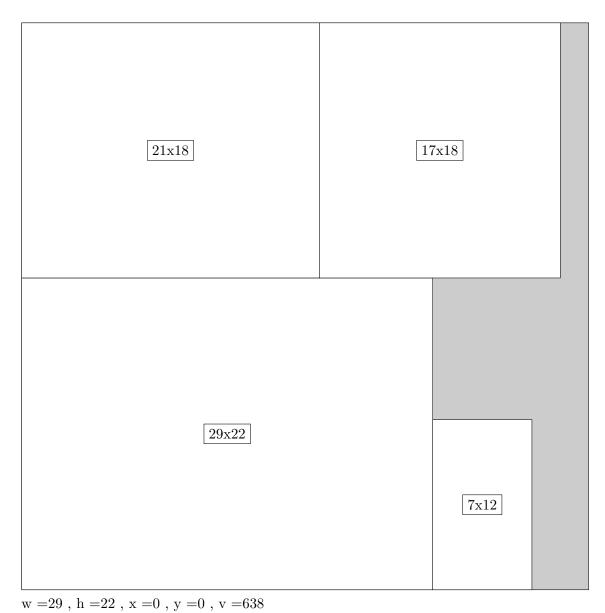
$$\begin{array}{l} w=22\;,\; h=31\;,\; x=0\;,\; y=0\;,\; v=682\\ w=27\;,\; h=1\;,\; x=0\;,\; y=39\;,\; v=27\\ w=28\;,\; h=8\;,\; x=0\;,\; y=31\;,\; v=224\\ w=4\;,\; h=35\;,\; x=36\;,\; y=0\;,\; v=140\\ w=14\;,\; h=29\;,\; x=22\;,\; y=0\;,\; v=406\\ w=14\;,\; h=1\;,\; x=22\;,\; y=29\;,\; v=14 \end{array}$$



 $\begin{array}{l} w=27 \;,\; h=23 \;,\; x=0 \;,\; y=0 \;,\; v=621 \\ w=27 \;,\; h=17 \;,\; x=0 \;,\; y=23 \;,\; v=459 \\ w=12 \;,\; h=26 \;,\; x=27 \;,\; y=0 \;,\; v=312 \\ w=2 \;,\; h=8 \;,\; x=27 \;,\; y=26 \;,\; v=16 \end{array}$



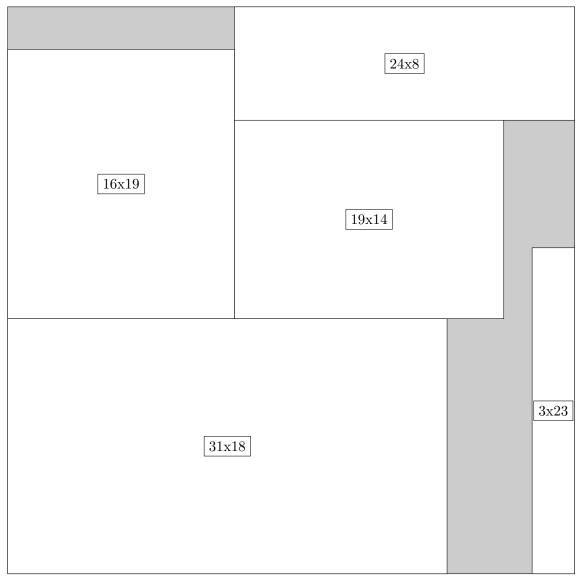
$$\begin{array}{l} w = \! 16 \ , \ h = \! 35 \ , \ x = \! 22 \ , \ y = \! 0 \ , \ v = \! 560 \\ w = \! 22 \ , \ h = \! 21 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 462 \\ w = \! 20 \ , \ h = \! 19 \ , \ x = \! 0 \ , \ y = \! 21 \ , \ v = \! 380 \\ w = \! 2 \ , \ h = \! 26 \ , \ x = \! 38 \ , \ y = \! 0 \ , \ v = \! 52 \end{array}$$



$$w = 29$$
, $h = 22$, $x = 0$, $y = 0$, $v = 038$
 $w = 21$, $h = 18$, $x = 0$, $y = 22$, $v = 378$

$$\le =17$$
 , h =18 , x =21 , y =22 , v =306

$$\mathbf{w}$$
 =7 , h =12 , x =29 , y =0 , v =84

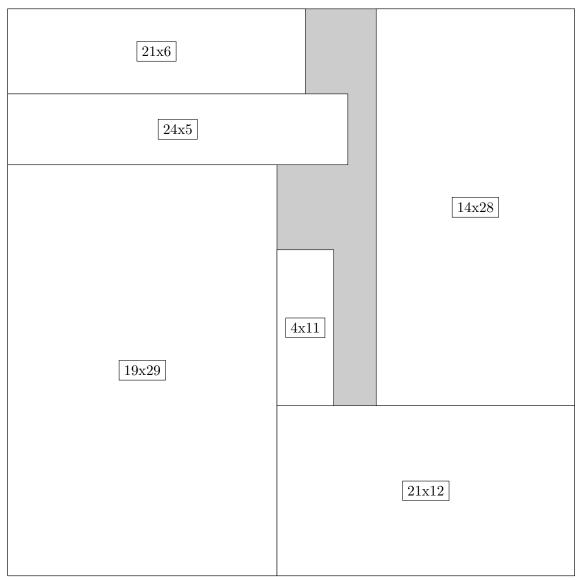


$$\begin{array}{l} w = \! 31 \; , \; h = \! 18 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 558 \\ w = \! 3 \; , \; h = \! 23 \; , \; x = \! 37 \; , \; y = \! 0 \; , \; v = \! 69 \end{array}$$

$$\mathbf{w}$$
 =16 , h =19 , x =0 , y =18 , v =304

$$\le =19$$
 , h =14 , x =16 , y =18 , v =266

$$w = 24$$
, $h = 8$, $x = 16$, $y = 32$, $v = 192$



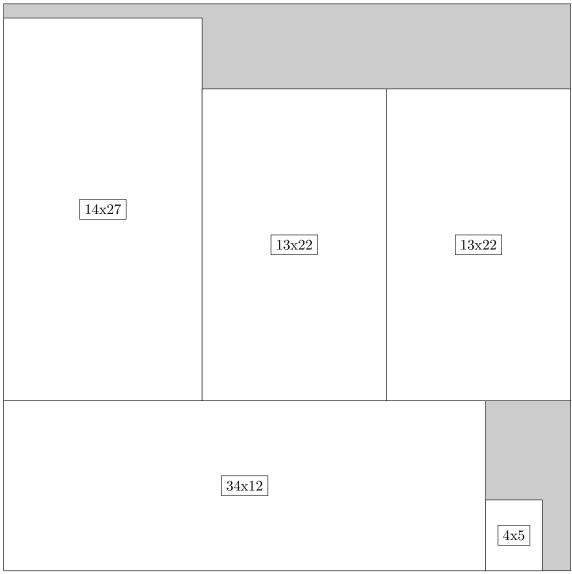
$$\le =14$$
 , $h=28$, $x=26$, $y=12$, $v=392$

$$\mathbf{w}$$
 =21 , h =12 , x =19 , y =0 , v =252

$$\le =21$$
 , h =6 , x =0 , y =34 , v =126

$$\le =24$$
 , h =5 , x =0 , y =29 , v =120

$$w=\!\!4$$
 , $h=\!\!11$, $x=\!\!19$, $y=\!\!12$, $v=\!\!44$



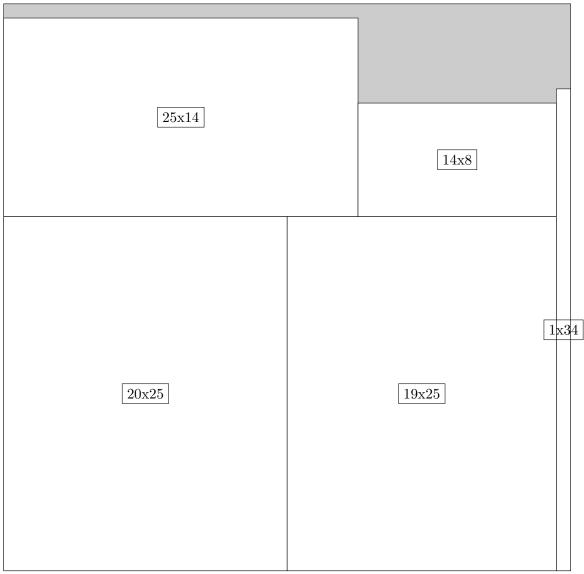
$$\le 34$$
 , h =12 , x =0 , y =0 , v =408

$$\le =14$$
 , h =27 , x =0 , y =12 , v =378

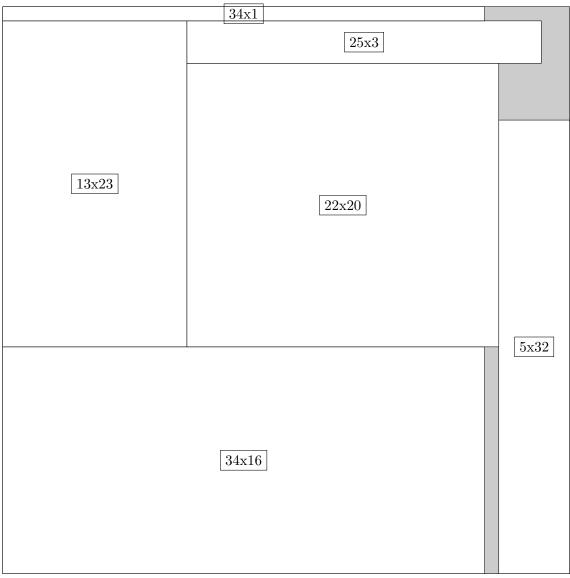
$$\le =13$$
 , h =22 , x =14 , y =12 , v =286

$$\le =13$$
 , h =22 , x =27 , y =12 , v =286

$$\mathbf{w}=\!\!4$$
 , $\mathbf{h}=\!\!5$, $\mathbf{x}=\!\!34$, $\mathbf{y}=\!\!0$, $\mathbf{v}=\!\!20$



$$\begin{array}{l} w=20 \ , \ h=25 \ , \ x=0 \ , \ y=0 \ , \ v=500 \\ w=19 \ , \ h=25 \ , \ x=20 \ , \ y=0 \ , \ v=475 \\ w=25 \ , \ h=14 \ , \ x=0 \ , \ y=25 \ , \ v=350 \\ w=14 \ , \ h=8 \ , \ x=25 \ , \ y=25 \ , \ v=112 \\ w=1 \ , \ h=34 \ , \ x=39 \ , \ y=0 \ , \ v=34 \end{array}$$



$$\le =34$$
 , h =16 , x =0 , y =0 , v =544

$$\le =13$$
 , h =23 , x =0 , y =16 , v =299

$$w$$
 =5 , h =32 , x =35 , y =0 , v =160

$$\le =25$$
 , h =3 , x =13 , y =36 , v =75

$$\le =22$$
 , h =20 , x =13 , y =16 , v =440

$$\le =34$$
 , h =1 , x =0 , y =39 , v =34