$ClassName: \ Class_03.2bp-47$

 $\begin{array}{ccc} \text{BinSize: } \underline{40} & \overline{\times} & \underline{40} \\ \text{ReduceSize: } \underline{40} & \times & \underline{40} \end{array}$

TypeNum: <u>97</u>
Num: <u>100</u>
OutS: <u>36800</u>
InS: <u>33424</u>
Rate: <u>0.908</u>
UB: <u>23</u>
LB0: <u>23</u>
LB: <u>23</u>

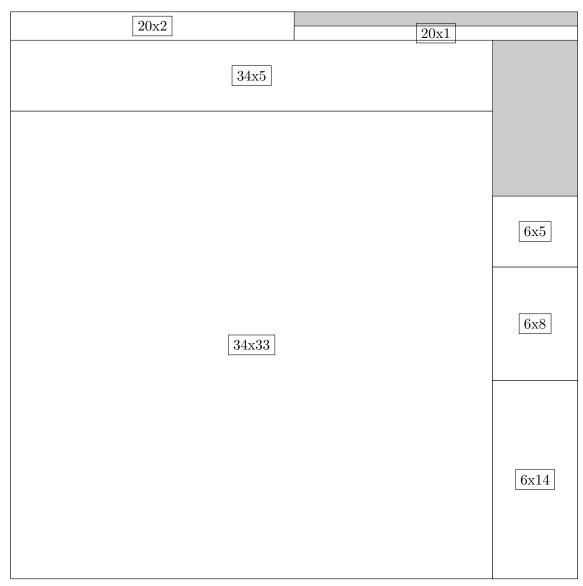
LBWithCut: $\underline{\mathbf{23}}$ NodeCut: $\underline{\mathbf{0}}$

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

GenNodeCnt: $\underline{\mathbf{1}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{23}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

isOpt: **true**

TimeOnInitSolution: 0.260 sTimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 0.400 s



$$w = 34$$
, $h = 33$, $x = 0$, $y = 0$, $v = 1122$

$$\le =34$$
 , h =5 , x =0 , y =33 , v =170

$$\mathbf{w}$$
 =6 , h =14 , x =34 , y =0 , v =84

$$\mathbf{w}$$
 =6 , h =8 , x =34 , y =14 , v =48

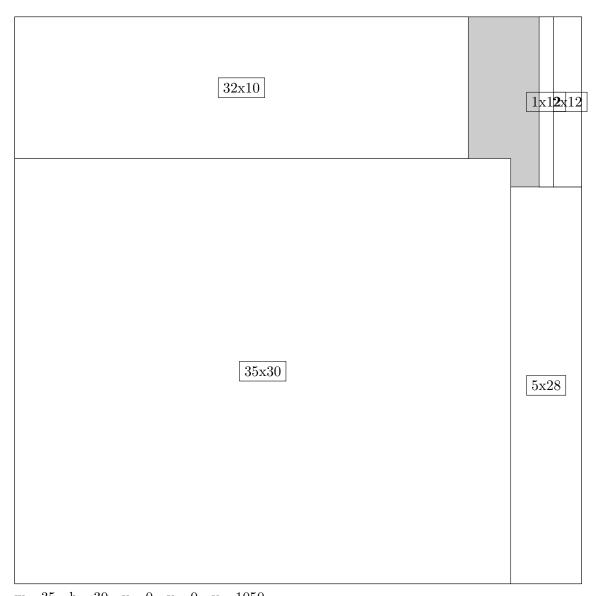
$$\le =20$$
 , $h=2$, $x=0$, $y=38$, $v=40$

$$\mathbf{w}$$
 =6 , h =5 , x =34 , y =22 , v =30

$$\le =20$$
 , h =1 , x =20 , y =38 , v =20

21x5	[11x5]	
		8x3
32x35		8x30

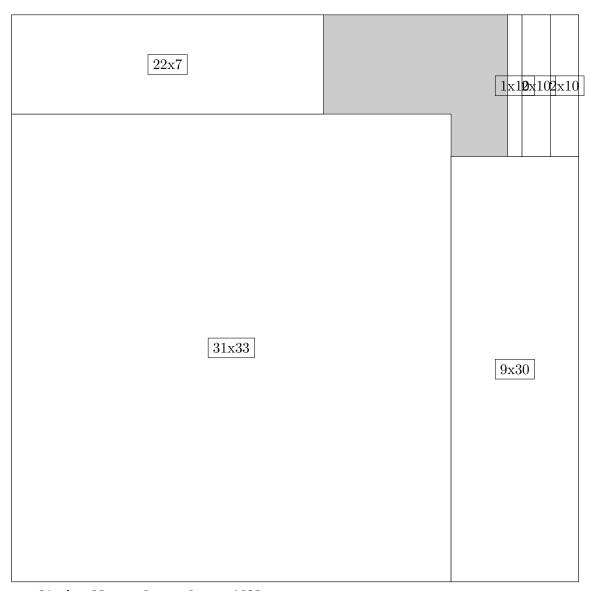
$$\begin{array}{l} w = & 32 \;,\; h = & 35 \;,\; x = & 0 \;,\; y = & 0 \;,\; v = & 1120 \\ w = & 8 \;,\; h = & 30 \;,\; x = & 32 \;,\; y = & 0 \;,\; v = & 240 \\ w = & 21 \;,\; h = & 5 \;,\; x = & 0 \;,\; y = & 35 \;,\; v = & 105 \\ w = & 11 \;,\; h = & 5 \;,\; x = & 21 \;,\; y = & 35 \;,\; v = & 55 \\ w = & 8 \;,\; h = & 3 \;,\; x = & 32 \;,\; y = & 30 \;,\; v = & 24 \end{array}$$



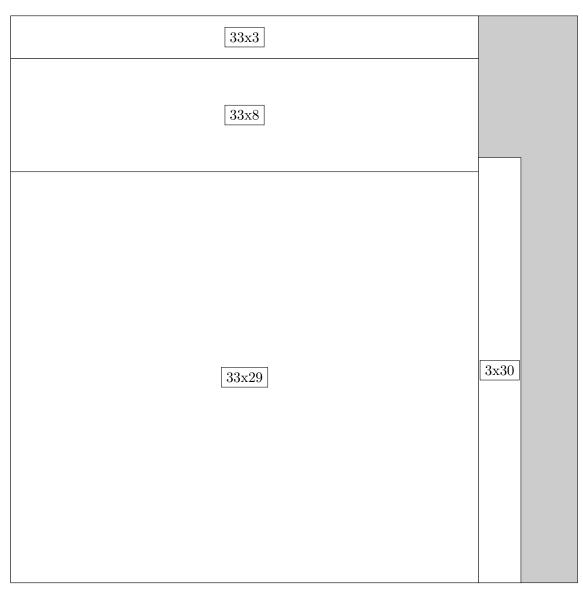
$$\begin{array}{l} w = & 35 \ , \ h = & 30 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 1050 \\ w = & 32 \ , \ h = & 10 \ , \ x = & 0 \ , \ y = & 30 \ , \ v = & 320 \\ w = & 5 \ , \ h = & 28 \ , \ x = & 35 \ , \ y = & 0 \ , \ v = & 140 \end{array}$$

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

$$\mathbf{w} = \!\! 1$$
 , $\mathbf{h} = \!\! 12$, $\mathbf{x} = \!\! 37$, $\mathbf{y} = \!\! 28$, $\mathbf{v} = \!\! 12$



$$\begin{array}{l} w = 31 \;,\; h = 33 \;,\; x = 0 \;,\; y = 0 \;,\; v = 1023 \\ w = 9 \;,\; h = 30 \;,\; x = 31 \;,\; y = 0 \;,\; v = 270 \\ w = 22 \;,\; h = 7 \;,\; x = 0 \;,\; y = 33 \;,\; v = 154 \\ w = 2 \;,\; h = 10 \;,\; x = 38 \;,\; y = 30 \;,\; v = 20 \\ w = 2 \;,\; h = 10 \;,\; x = 36 \;,\; y = 30 \;,\; v = 20 \\ w = 1 \;,\; h = 10 \;,\; x = 35 \;,\; y = 30 \;,\; v = 10 \end{array}$$



$$w = 33$$
, $h = 29$, $x = 0$, $y = 0$, $v = 957$

$$\le =33$$
 , h =8 , x =0 , y =29 , v =264

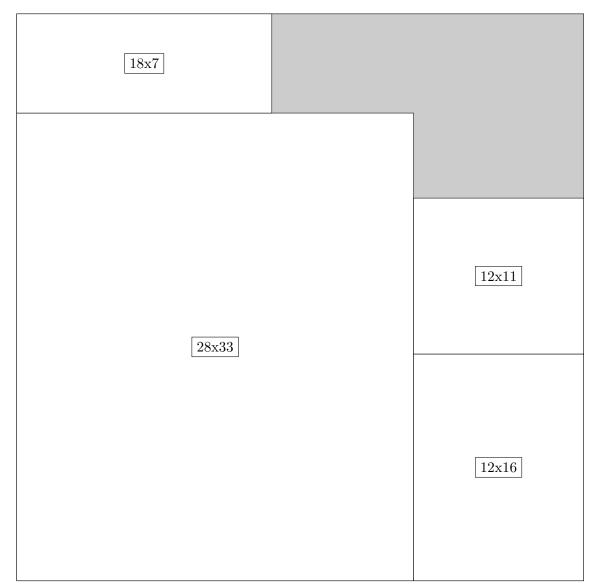
$$\le =33$$
 , h =3 , x =0 , y =37 , v =99

$$\mathbf{w}=\!3$$
 , $\mathbf{h}=\!30$, $\mathbf{x}=\!33$, $\mathbf{y}=\!0$, $\mathbf{v}=\!90$

	10x12	
33x28		

$$\begin{array}{l} w = \!\! 33 \ , \ h = \!\! 28 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 924 \\ w = \!\! 23 \ , \ h = \!\! 12 \ , \ x = \!\! 0 \ , \ y = \!\! 28 \ , \ v = \!\! 276 \end{array}$$

$$w = 10$$
, $h = 12$, $x = 23$, $y = 28$, $v = 120$



$$\le =28$$
 , h =33 , x =0 , y =0 , v =924

$$\le =12$$
 , h =16 , x =28 , y =0 , v =192

$$\le =12$$
 , $h=11$, $x=28$, $y=16$, $v=132$

$$\mathbf{w}$$
 =18 , h =7 , x =0 , y =33 , v =126

27x11	[10x6]
30x29	10x34

$$w = 30$$
, $h = 29$, $x = 0$, $y = 0$, $v = 870$

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

$$\le =27$$
 , h =11 , x =3 , y =29 , v =297

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

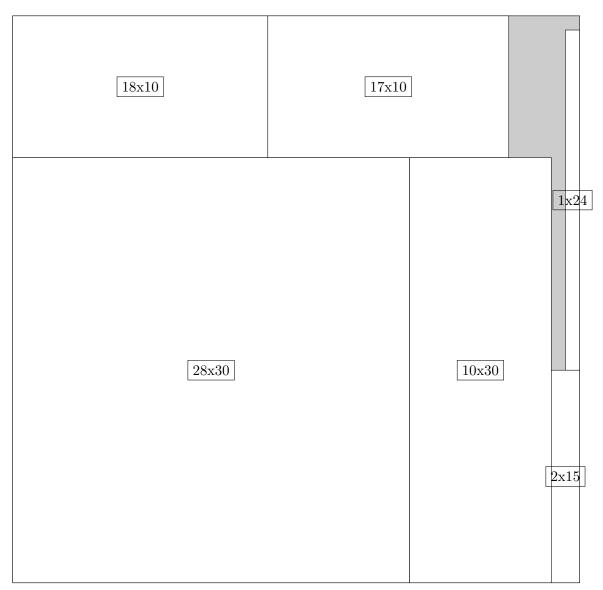
29x10	11x8
$29\mathrm{x}30$	11x31

$$\begin{array}{l} w = 29 \ , \ h = \!\! 30 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 870 \\ w = \!\! 11 \ , \ h = \!\! 31 \ , \ x = \!\! 29 \ , \ y = \!\! 0 \ , \ v = \!\! 341 \end{array}$$

$$w = 29$$
 , $h = 10$, $x = 0$, $y = 30$, $v = 290$

$$w = 29$$
, $h = 10$, $x = 0$, $y = 30$, $v = 290$

$$\le =11$$
 , h =8 , x =29 , y =31 , v =88



$$w = 28$$
, $h = 30$, $x = 0$, $y = 0$, $v = 840$

$$\le =10$$
 , $h=30$, $x=28$, $y=0$, $v=300$

$$\mathbf{w}$$
 =18 , \mathbf{h} =10 , \mathbf{x} =0 , \mathbf{y} =30 , \mathbf{v} =180

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

$$w$$
 =2 , h =15 , x =38 , y =0 , v =30

$$\mathbf{w}$$
 =1 , h =24 , x =39 , y =15 , v =24

	27x2	
	20x6	14x8
26x	32	14x30

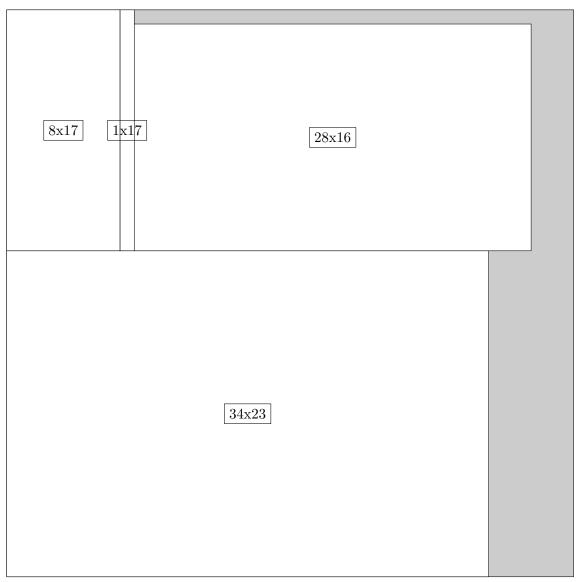
$$w = 26$$
, $h = 32$, $x = 0$, $y = 0$, $v = 832$

$$\le =14$$
 , $= 30$, $= 26$, $= 26$, $= 20$, $= 20$, $= 20$

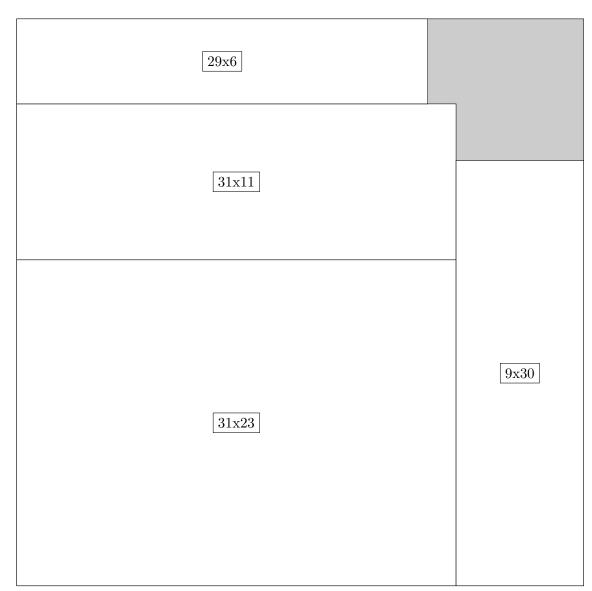
$$\le =20$$
 , $h=6$, $x=6$, $y=32$, $v=120$

$$\le =14$$
 , h =8 , x =26 , y =30 , v =112

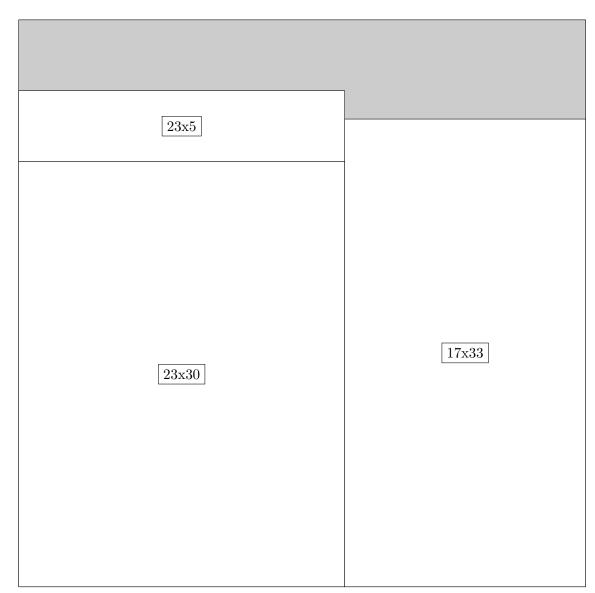
$$\le =27$$
 , h =2 , x =13 , y =38 , v =54



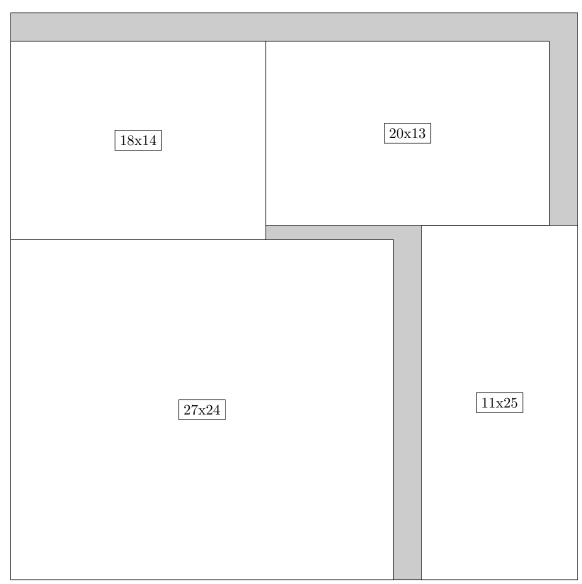
$$\begin{array}{l} w = \!\! 34 \ , \ h = \!\! 23 \ , \ x = \!\! 0 \ , \ y = \!\! 0 \ , \ v = \!\! 782 \\ w = \!\! 28 \ , \ h = \!\! 16 \ , \ x = \!\! 9 \ , \ y = \!\! 23 \ , \ v = \!\! 448 \\ w = \!\! 8 \ , \ h = \!\! 17 \ , \ x = \!\! 0 \ , \ y = \!\! 23 \ , \ v = \!\! 136 \\ w = \!\! 1 \ , \ h = \!\! 17 \ , \ x = \!\! 8 \ , \ y = \!\! 23 \ , \ v = \!\! 17 \end{array}$$



$$\begin{array}{l} w = & 31 \ , \ h = & 23 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 713 \\ w = & 31 \ , \ h = & 11 \ , \ x = & 0 \ , \ y = & 23 \ , \ v = & 341 \\ w = & 9 \ , \ h = & 30 \ , \ x = & 31 \ , \ y = & 0 \ , \ v = & 270 \\ w = & 29 \ , \ h = & 6 \ , \ x = & 0 \ , \ y = & 34 \ , \ v = & 174 \end{array}$$



$$\begin{array}{l} w = 23 \ , \ h = 30 \ , \ x = 0 \ , \ y = 0 \ , \ v = 690 \\ w = 17 \ , \ h = 33 \ , \ x = 23 \ , \ y = 0 \ , \ v = 561 \\ w = 23 \ , \ h = 5 \ , \ x = 0 \ , \ y = 30 \ , \ v = 115 \end{array}$$

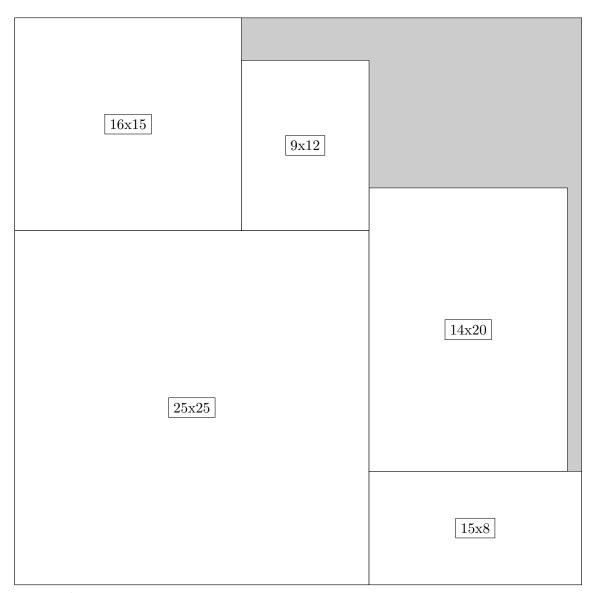


$$\le =27$$
 , h =24 , x =0 , y =0 , v =648

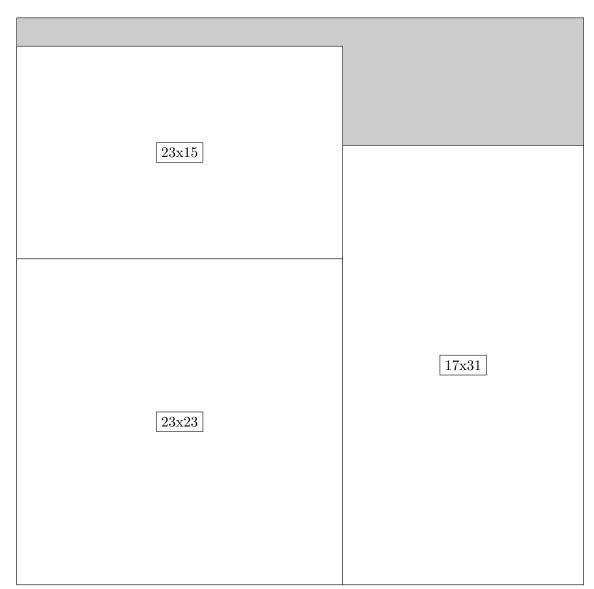
$$\le =11$$
 , h =25 , x =29 , y =0 , v =275

$$\le =18$$
 , h =14 , x =0 , y =24 , v =252

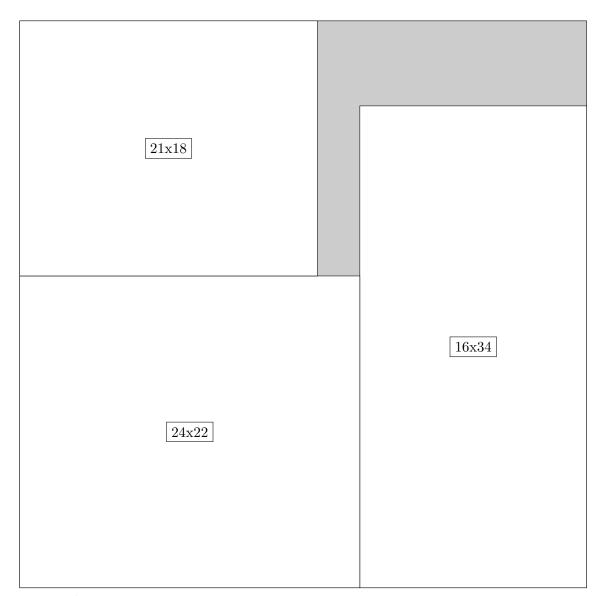
$$\le =20$$
 , h =13 , x =18 , y =25 , v =260



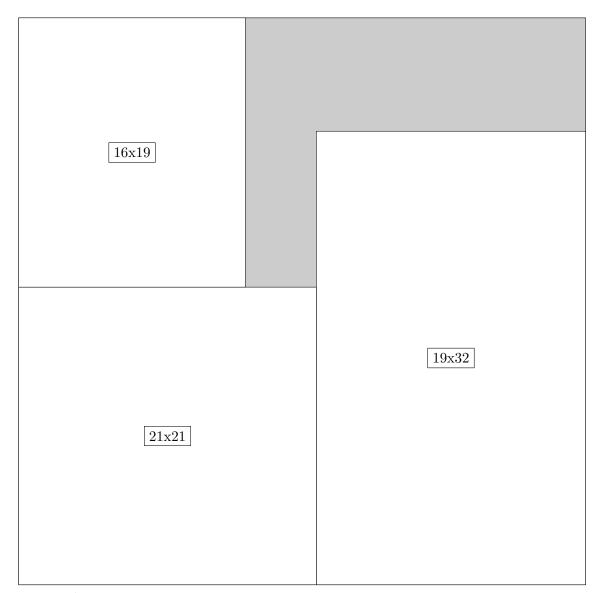
$$\begin{array}{l} w = 25 \ , \ h = 25 \ , \ x = 0 \ , \ y = 0 \ , \ v = 625 \\ w = 14 \ , \ h = 20 \ , \ x = 25 \ , \ y = 8 \ , \ v = 280 \\ w = 16 \ , \ h = 15 \ , \ x = 0 \ , \ y = 25 \ , \ v = 240 \\ w = 15 \ , \ h = 8 \ , \ x = 25 \ , \ y = 0 \ , \ v = 120 \\ w = 9 \ , \ h = 12 \ , \ x = 16 \ , \ y = 25 \ , \ v = 108 \end{array}$$



$$\begin{array}{l} w = 23 \ , \ h = 23 \ , \ x = 0 \ , \ y = 0 \ , \ v = 529 \\ w = 17 \ , \ h = 31 \ , \ x = 23 \ , \ y = 0 \ , \ v = 527 \\ w = 23 \ , \ h = 15 \ , \ x = 0 \ , \ y = 23 \ , \ v = 345 \end{array}$$

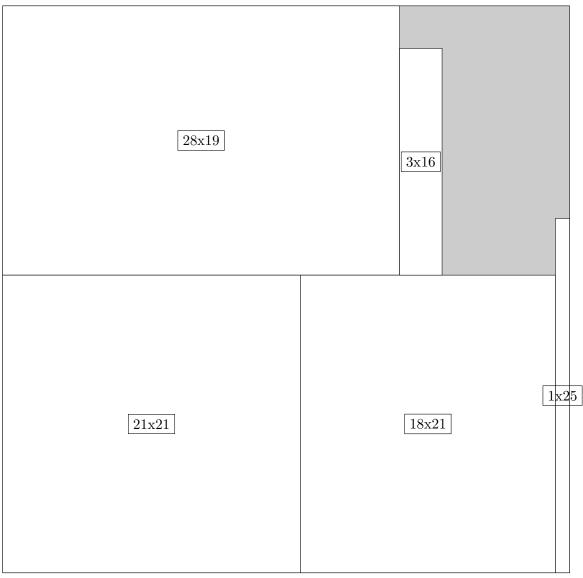


$$\begin{array}{l} w = 16 \ , \ h = 34 \ , \ x = 24 \ , \ y = 0 \ , \ v = 544 \\ w = 24 \ , \ h = 22 \ , \ x = 0 \ , \ y = 0 \ , \ v = 528 \\ w = 21 \ , \ h = 18 \ , \ x = 0 \ , \ y = 22 \ , \ v = 378 \end{array}$$

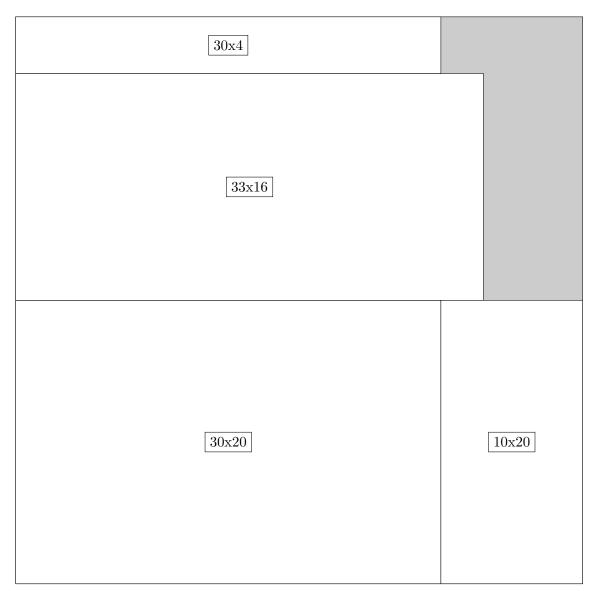


$$\begin{array}{l} w = & 19 \ , \ h = & 32 \ , \ x = & 21 \ , \ y = & 0 \ , \ v = & 608 \\ w = & 21 \ , \ h = & 21 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 441 \end{array}$$

$$w = 16$$
, $h = 19$, $x = 0$, $y = 21$, $v = 304$



 $\begin{array}{l} w=28\;,\; h=19\;,\; x=0\;,\; y=21\;,\; v=532\\ w=21\;,\; h=21\;,\; x=0\;,\; y=0\;,\; v=441\\ w=18\;,\; h=21\;,\; x=21\;,\; y=0\;,\; v=378\\ w=3\;,\; h=16\;,\; x=28\;,\; y=21\;,\; v=48\\ w=1\;,\; h=25\;,\; x=39\;,\; y=0\;,\; v=25 \end{array}$

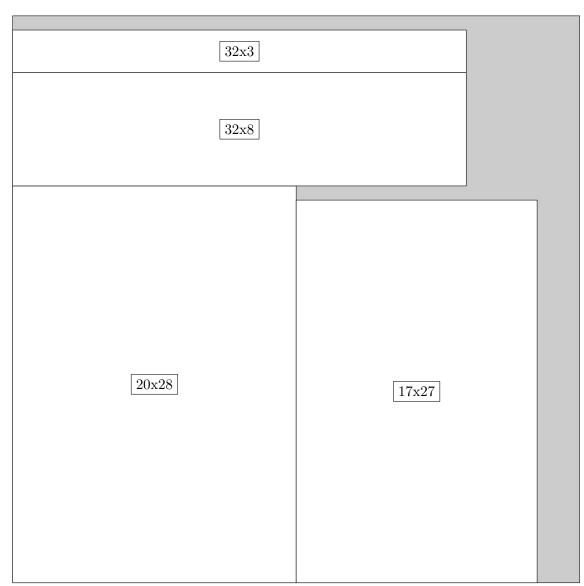


$$w = 30 \ , \ h = 20 \ , \ x = 0 \ , \ y = 0 \ , \ v = 600$$

$$w = 33$$
, $h = 16$, $x = 0$, $y = 20$, $v = 528$

$$\le =10$$
 , h =20 , x =30 , y =0 , v =200

$$\mathbf{w}$$
 =30 , h =4 , x =0 , y =36 , v =120

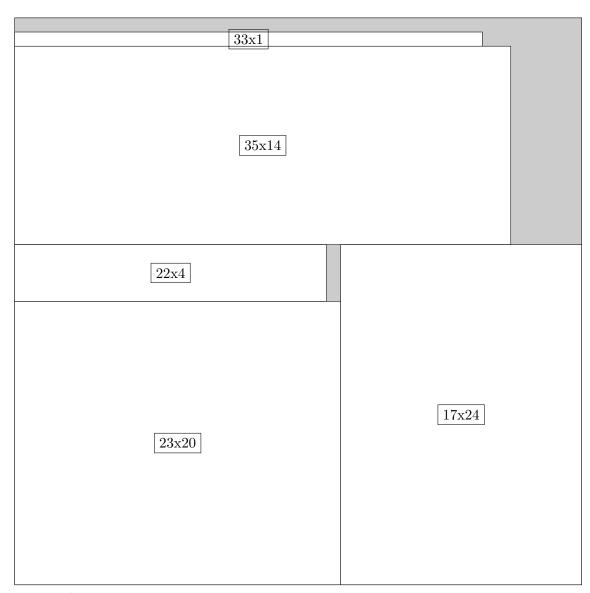


$$\le =20$$
 , h =28 , x =0 , y =0 , v =560

$$w = 17$$
, $h = 27$, $x = 20$, $y = 0$, $v = 459$

$$\le =32$$
 , h =8 , x =0 , y =28 , v =256

$$\le =32$$
 , h =3 , x =0 , y =36 , v =96



$$\le =35$$
 , h =14 , x =0 , y =24 , v =490

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

$$\le =17$$
 , h =24 , x =23 , y =0 , v =408

$$\le =22$$
 , h =4 , x =0 , y =20 , v =88

$$w = 33$$
, $h = 1$, $x = 0$, $y = 38$, $v = 33$