$ClassName: \ Class_03.2bp\text{-}46$

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

TypeNum: <u>97</u>
Num: <u>100</u>
OutS: <u>32000</u>
InS: <u>29445</u>
Rate: <u>0.920</u>
UB: <u>20</u>
LB0: <u>20</u>
LB: <u>20</u>

LBWithCut: $\underline{20}$ NodeCut: $\underline{0}$

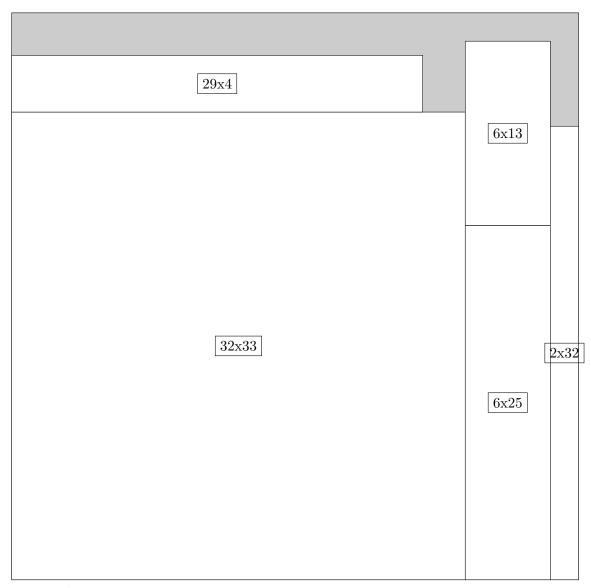
ExtendedNodeCnt: $\underline{\mathbf{1}}$

GenNodeCnt: 1
PrimalNode: 0
ColumnCount: 20
TotalCutCount: 0
RootCutCount: 0
LPSolverCnt: 1
PricingSolverCnt: 0
Branch And Bound Nu

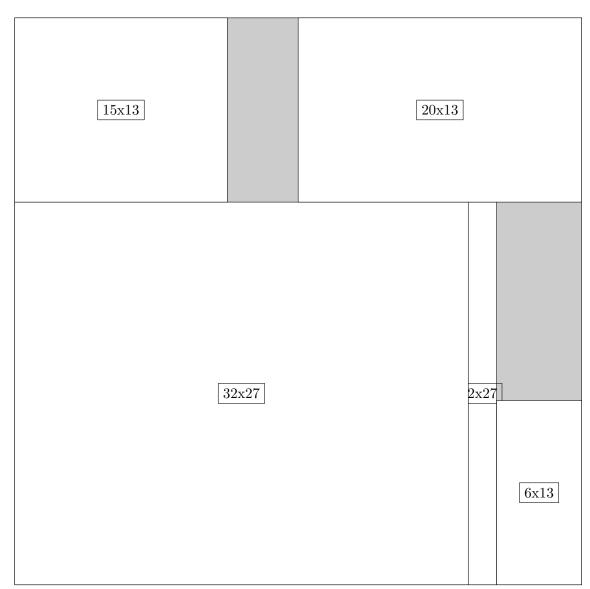
Branch And
Bound Num: $\underline{\mathbf{1}}$

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

 $\begin{array}{ll} \text{TimeOnPrimal: } \underline{0.000 \text{ s}} \\ \text{TimeOnPricing: } \underline{0.000 \text{ s}} \\ \text{TimeOnRmp: } \underline{0.110 \text{ s}} \\ \text{TotalTime: } \underline{0.157 \text{ s}} \end{array}$



 $\begin{array}{l} w = & 32 \;, \; h = & 33 \;, \; x = & 0 \;, \; y = & 0 \;, \; v = & 1056 \\ w = & 6 \;, \; h = & 25 \;, \; x = & 32 \;, \; y = & 0 \;, \; v = & 150 \\ w = & 29 \;, \; h = & 4 \;, \; x = & 0 \;, \; y = & 33 \;, \; v = & 116 \\ w = & 6 \;, \; h = & 13 \;, \; x = & 32 \;, \; y = & 25 \;, \; v = & 78 \\ w = & 2 \;, \; h = & 32 \;, \; x = & 38 \;, \; y = & 0 \;, \; v = & 64 \end{array}$



$$\mathbf{w}$$
 =2 , h =27 , x =32 , y =0 , v =54

$$\le =32$$
 , h =27 , x =0 , y =0 , v =864

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

$$\mathbf{w}$$
 =15 , h =13 , x =0 , y =27 , v =195

$$\mathbf{w}$$
 =6 , h =13 , x =34 , y =0 , v =78

[27x8]	10x9
30x32	$10\mathrm{x}30$

$$\begin{array}{l} w = & 30 \ , \ h = & 32 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 960 \\ w = & 10 \ , \ h = & 30 \ , \ x = & 30 \ , \ y = & 0 \ , \ v = & 300 \\ w = & 27 \ , \ h = & 8 \ , \ x = & 0 \ , \ y = & 32 \ , \ v = & 216 \end{array}$$

 $\le =10$, h =9 , x =30 , y =30 , v =90

28x6	7x8 2x8 3x5
28x34	12x32

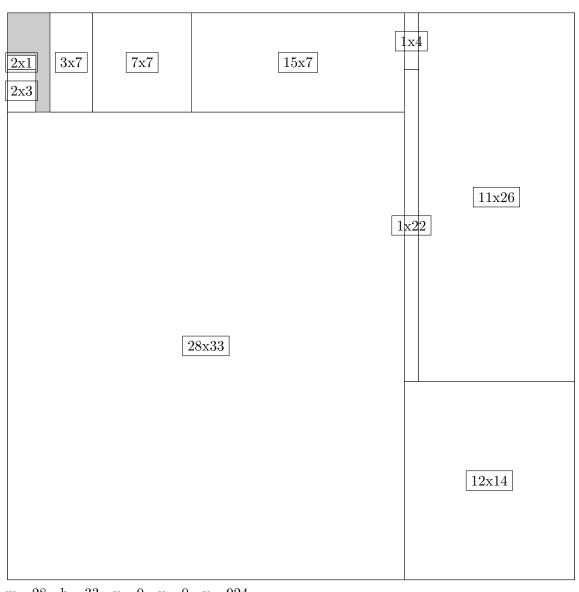
$$\begin{array}{l} w = 28 \ , \ h = 34 \ , \ x = 0 \ , \ y = 0 \ , \ v = 952 \\ w = 12 \ , \ h = 32 \ , \ x = 28 \ , \ y = 0 \ , \ v = 384 \\ \end{array}$$

$$w = 28$$
, $h = 6$, $x = 0$, $y = 34$, $v = 168$

$$w = 7$$
, $h = 8$, $x = 28$, $y = 32$, $v = 56$

$$\le =2$$
 , h =
8 , x =
35 , y =
32 , v =
16

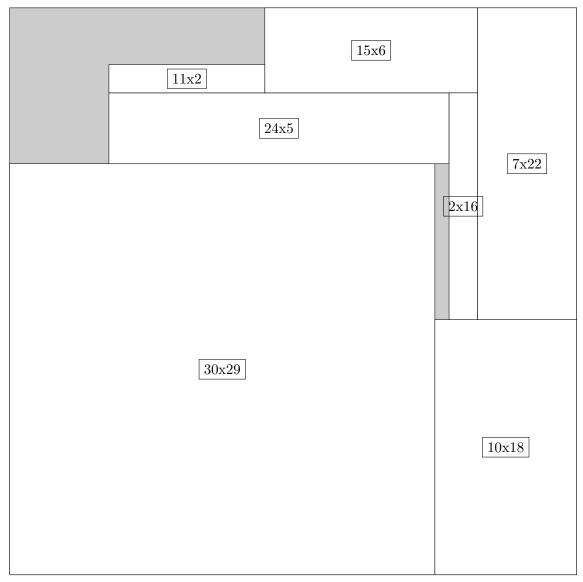
$$\mathbf{w}$$
 =3 , h =5 , x =37 , y =32 , v =15



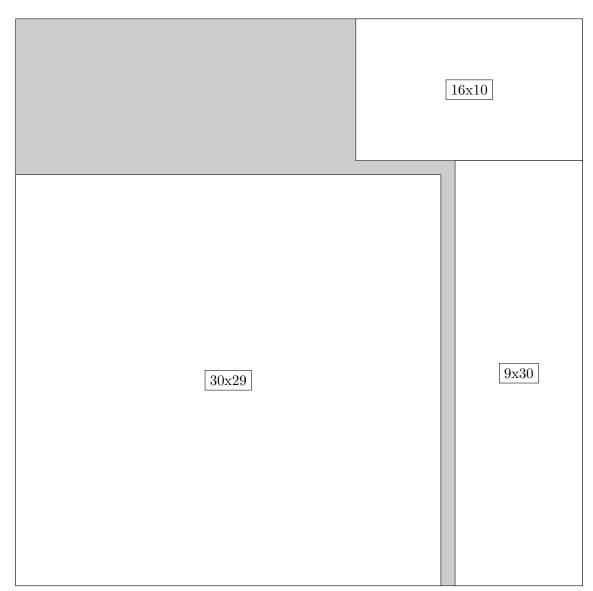
$$\begin{array}{l} w=28\;,\; h=33\;,\; x=0\;,\; y=0\;,\; v=924\\ w=11\;,\; h=26\;,\; x=29\;,\; y=14\;,\; v=286\\ w=12\;,\; h=14\;,\; x=28\;,\; y=0\;,\; v=168\\ w=15\;,\; h=7\;,\; x=13\;,\; y=33\;,\; v=105\\ w=7\;,\; h=7\;,\; x=6\;,\; y=33\;,\; v=49\\ w=1\;,\; h=22\;,\; x=28\;,\; y=14\;,\; v=22\\ w=3\;,\; h=7\;,\; x=3\;,\; y=33\;,\; v=21\\ w=2\;,\; h=3\;,\; x=0\;,\; y=33\;,\; v=6\\ w=1\;,\; h=4\;,\; x=28\;,\; y=36\;,\; v=4\\ w=2\;,\; h=1\;,\; x=0\;,\; y=36\;,\; v=2\\ \end{array}$$

17x4	23x11	
31x29		9x29

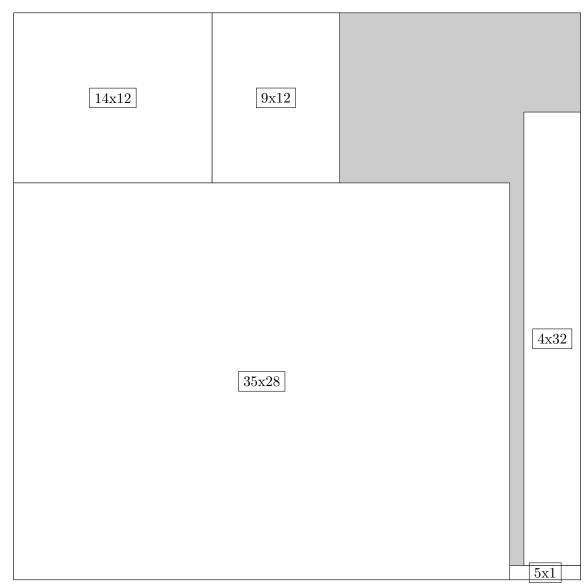
$$\begin{array}{l} w = & 31 \ , \ h = & 29 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 899 \\ w = & 9 \ , \ h = & 29 \ , \ x = & 31 \ , \ y = & 0 \ , \ v = & 261 \\ w = & 23 \ , \ h = & 11 \ , \ x = & 17 \ , \ y = & 29 \ , \ v = & 253 \\ w = & 17 \ , \ h = & 4 \ , \ x = & 0 \ , \ y = & 29 \ , \ v = & 68 \end{array}$$



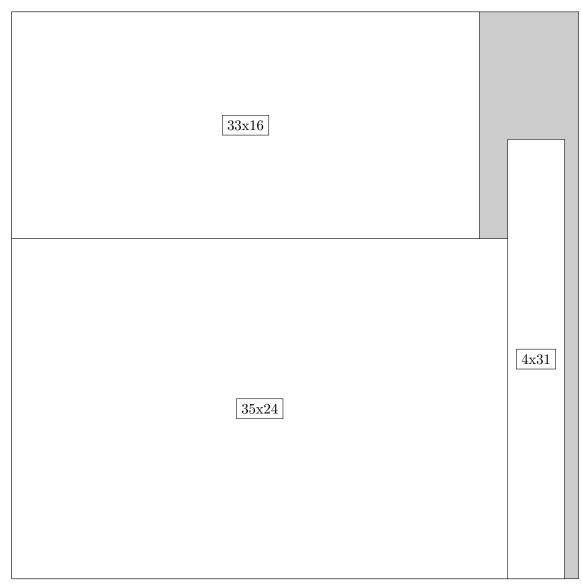
 $\begin{array}{l} w = & 30 \;,\; h = & 29 \;,\; x = & 0 \;,\; y = & 0 \;,\; v = & 870 \\ w = & 10 \;,\; h = & 18 \;,\; x = & 30 \;,\; y = & 0 \;,\; v = & 180 \\ w = & 7 \;,\; h = & 22 \;,\; x = & 33 \;,\; y = & 18 \;,\; v = & 154 \\ w = & 24 \;,\; h = & 5 \;,\; x = & 7 \;,\; y = & 29 \;,\; v = & 120 \\ w = & 15 \;,\; h = & 6 \;,\; x = & 18 \;,\; y = & 34 \;,\; v = & 90 \\ w = & 2 \;,\; h = & 16 \;,\; x = & 31 \;,\; y = & 18 \;,\; v = & 32 \\ w = & 11 \;,\; h = & 2 \;,\; x = & 7 \;,\; y = & 34 \;,\; v = & 22 \end{array}$



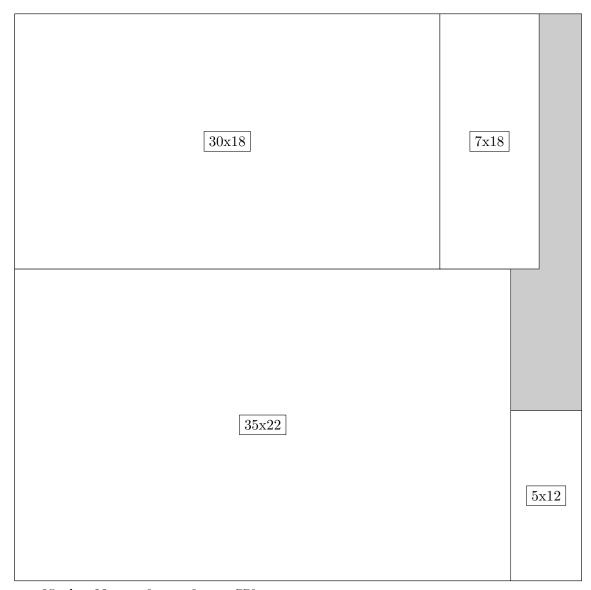
$$\begin{array}{l} w = \! 30 \ , \ h = \! 29 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 870 \\ w = \! 9 \ , \ h = \! 30 \ , \ x = \! 31 \ , \ y = \! 0 \ , \ v = \! 270 \\ w = \! 16 \ , \ h = \! 10 \ , \ x = \! 24 \ , \ y = \! 30 \ , \ v = \! 160 \end{array}$$



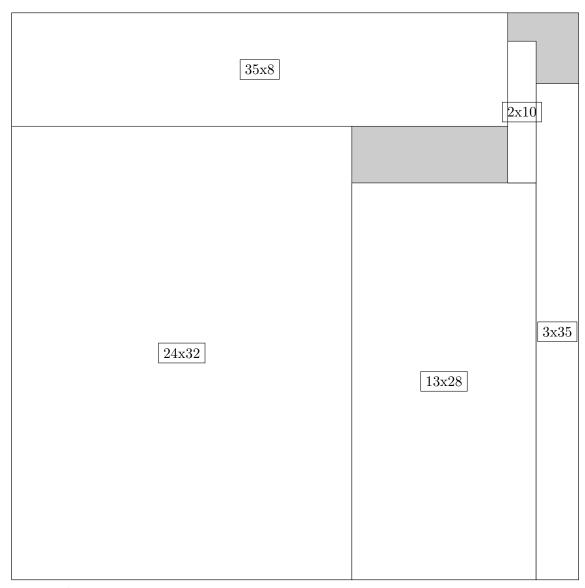
$$\begin{array}{l} w = \! 14 \;, \; h = \! 12 \;, \; x = \! 0 \;, \; y = \! 28 \;, \; v = \! 168 \\ w = \! 4 \;, \; h = \! 32 \;, \; x = \! 36 \;, \; y = \! 1 \;, \; v = \! 128 \\ w = \! 9 \;, \; h = \! 12 \;, \; x = \! 14 \;, \; y = \! 28 \;, \; v = \! 108 \\ w = \! 35 \;, \; h = \! 28 \;, \; x = \! 0 \;, \; y = \! 0 \;, \; v = \! 980 \\ w = \! 5 \;, \; h = \! 1 \;, \; x = \! 35 \;, \; y = \! 0 \;, \; v = \! 5 \end{array}$$



$$\begin{array}{l} w = \! 35 \ , \ h = \! 24 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 840 \\ w = \! 33 \ , \ h = \! 16 \ , \ x = \! 0 \ , \ y = \! 24 \ , \ v = \! 528 \\ w = \! 4 \ , \ h = \! 31 \ , \ x = \! 35 \ , \ y = \! 0 \ , \ v = \! 124 \end{array}$$



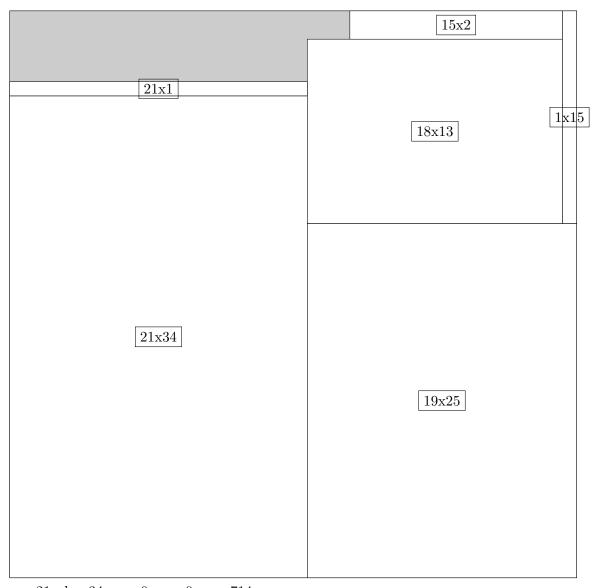
 $\begin{array}{l} w = & 35 \ , \ h = & 22 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 770 \\ w = & 30 \ , \ h = & 18 \ , \ x = & 0 \ , \ y = & 22 \ , \ v = & 540 \\ w = & 7 \ , \ h = & 18 \ , \ x = & 30 \ , \ y = & 22 \ , \ v = & 126 \\ w = & 5 \ , \ h = & 12 \ , \ x = & 35 \ , \ y = & 0 \ , \ v = & 60 \end{array}$



 $\begin{array}{l} w=24\;,\; h=32\;,\; x=0\;,\; y=0\;,\; v=768\\ w=13\;,\; h=28\;,\; x=24\;,\; y=0\;,\; v=364\\ w=35\;,\; h=8\;,\; x=0\;,\; y=32\;,\; v=280\\ w=3\;,\; h=35\;,\; x=37\;,\; y=0\;,\; v=105\\ w=2\;,\; h=10\;,\; x=35\;,\; y=28\;,\; v=20 \end{array}$

[15x5]		
22x34	17	7x34

$$\begin{array}{l} w = 22 \; , \; h = 34 \; , \; x = 0 \; , \; y = 0 \; , \; v = 748 \\ w = 17 \; , \; h = 34 \; , \; x = 22 \; , \; y = 0 \; , \; v = 578 \\ w = 15 \; , \; h = 5 \; , \; x = 0 \; , \; y = 34 \; , \; v = 75 \end{array}$$



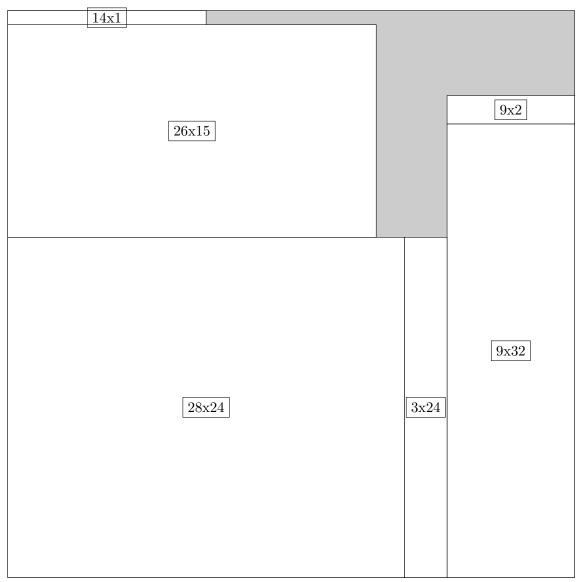
 $\begin{array}{l} w = \! 21 \ , \ h = \! 34 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 714 \\ w = \! 19 \ , \ h = \! 25 \ , \ x = \! 21 \ , \ y = \! 0 \ , \ v = \! 475 \end{array}$

w = 18, h = 13, x = 21, y = 25, v = 234

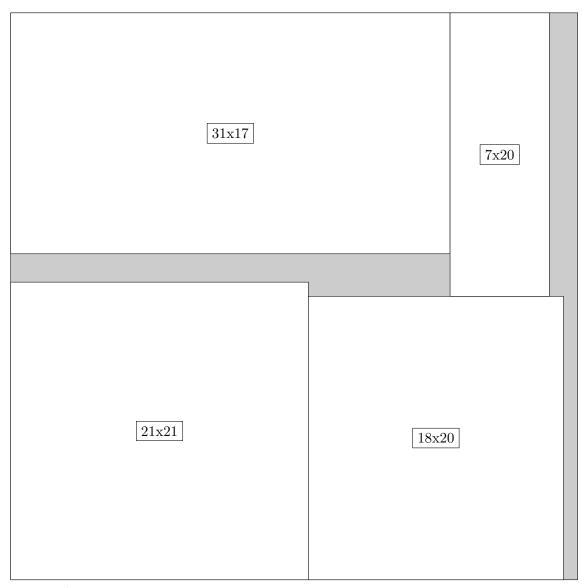
w = 15, h = 2, x = 24, y = 38, v = 30

w =21, h =1, x =0, y =34, v =21

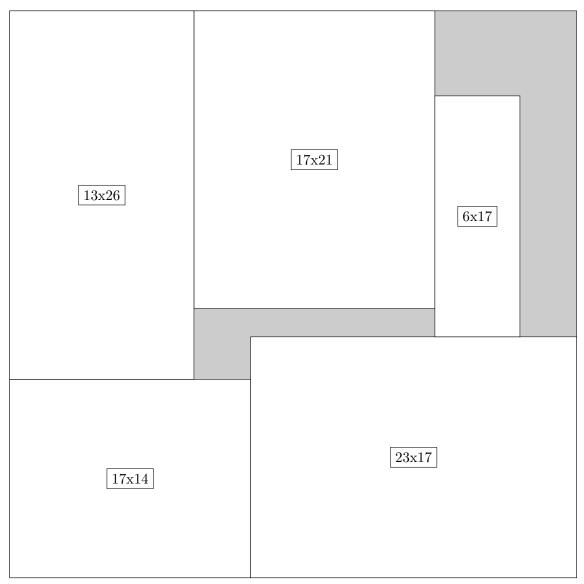
 \mathbf{w} =1 , h =15 , x =39 , y =25 , v =15



 $\begin{array}{l} w=28\;,\; h=24\;,\; x=0\;,\; y=0\;,\; v=672\\ w=9\;,\; h=32\;,\; x=31\;,\; y=0\;,\; v=288\\ w=26\;,\; h=15\;,\; x=0\;,\; y=24\;,\; v=390\\ w=3\;,\; h=24\;,\; x=28\;,\; y=0\;,\; v=72\\ w=9\;,\; h=2\;,\; x=31\;,\; y=32\;,\; v=18\\ w=14\;,\; h=1\;,\; x=0\;,\; y=39\;,\; v=14 \end{array}$



 $\begin{array}{l} w = & 31 \ , \ h = & 17 \ , \ x = & 0 \ , \ y = & 23 \ , \ v = & 527 \\ w = & 21 \ , \ h = & 21 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 441 \\ w = & 18 \ , \ h = & 20 \ , \ x = & 21 \ , \ y = & 0 \ , \ v = & 360 \\ w = & 7 \ , \ h = & 20 \ , \ x = & 31 \ , \ y = & 20 \ , \ v = & 140 \end{array}$



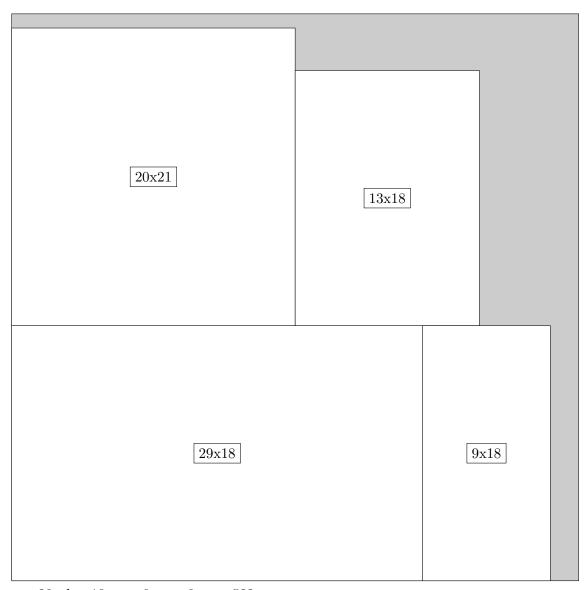
$$w = 17$$
, $h = 14$, $x = 0$, $y = 0$, $v = 238$

$$\le =23$$
 , h =17 , x =17 , y =0 , v =391

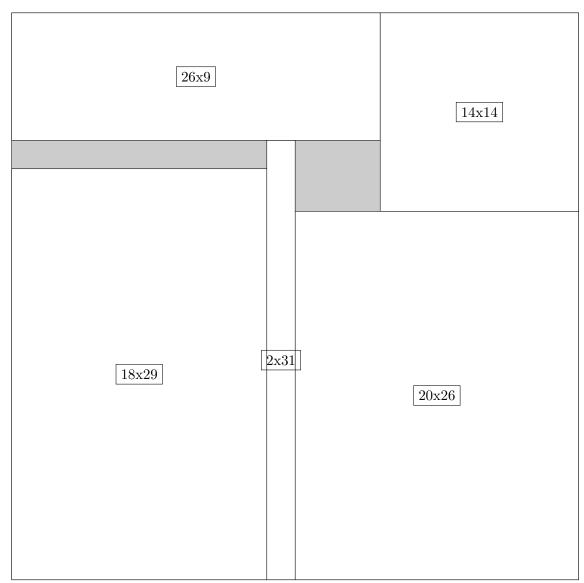
$$\le =17$$
 , h =21 , x =13 , y =19 , v =357

$$\le =13$$
 , h =26 , x =0 , y =14 , v =338

$$\mathbf{w}$$
 =6 , h =17 , x =30 , y =17 , v =102



$$\begin{array}{l} w=29 \ , \ h=18 \ , \ x=0 \ , \ y=0 \ , \ v=522 \\ w=20 \ , \ h=21 \ , \ x=0 \ , \ y=18 \ , \ v=420 \\ w=13 \ , \ h=18 \ , \ x=20 \ , \ y=18 \ , \ v=234 \\ w=9 \ , \ h=18 \ , \ x=29 \ , \ y=0 \ , \ v=162 \end{array}$$



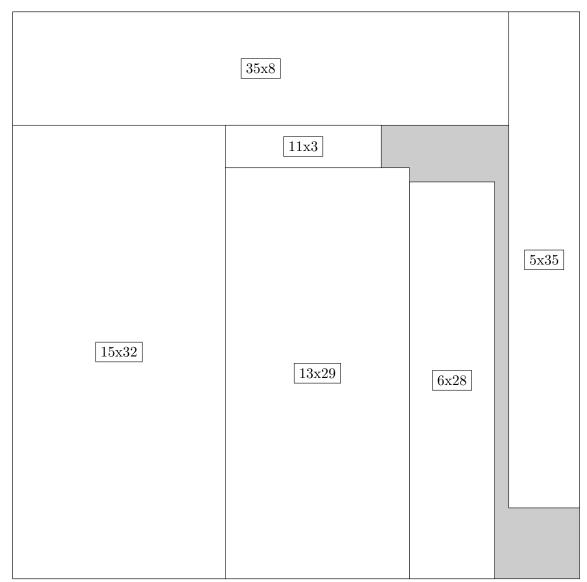
$$\le =18$$
 , $==29$, $==0$, $==522$

$$\le =20$$
 , h =26 , x =20 , y =0 , v =520

$$\le =26$$
 , h =9 , x =0 , y =31 , v =234

$$w = 14$$
, $h = 14$, $x = 26$, $y = 26$, $v = 196$

$$w = 2$$
, $h = 31$, $x = 18$, $y = 0$, $v = 62$



 $\begin{array}{l} w = \! 15 \; , \; h = \! 32 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 480 \\ w = \! 13 \; , \; h = \! 29 \; , \; x = \! 15 \; , \; y = \! 0 \; , \; v = \! 377 \\ w = \! 35 \; , \; h = \! 8 \; , \; x = \! 0 \; , \; y = \! 32 \; , \; v = \! 280 \\ w = \! 5 \; , \; h = \! 35 \; , \; x = \! 35 \; , \; y = \! 5 \; , \; v = \! 175 \\ w = \! 6 \; , \; h = \! 28 \; , \; x = \! 28 \; , \; y = \! 0 \; , \; v = \! 168 \\ w = \! 11 \; , \; h = \! 3 \; , \; x = \! 15 \; , \; y = \! 29 \; , \; v = \! 33 \end{array}$