${\bf ClassName:}~{\bf Class\_03.2bp\text{-}30}$ 

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

TypeNum: <u>79</u> Num: <u>80</u> OutS: <u>27200</u> InS: <u>24257</u> Rate: <u>0.892</u> UB: <u>17</u> LB0: <u>17</u>

LBWithCut: <u>17</u> NodeCut: <u>0</u>

LB: **17** 

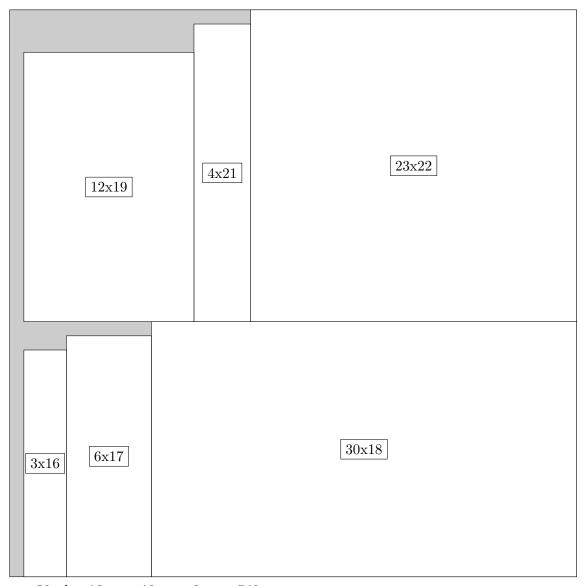
ExtendedNodeCnt:  $\underline{\mathbf{1}}$ 

GenNodeCnt:  $\underline{\mathbf{1}}$ PrimalNode:  $\underline{\mathbf{0}}$ ColumnCount:  $\underline{\mathbf{17}}$ TotalCutCount:  $\underline{\mathbf{0}}$ RootCutCount:  $\underline{\mathbf{0}}$ LPSolverCnt:  $\underline{\mathbf{1}}$ PricingSolverCnt:  $\underline{\mathbf{0}}$ BranchAndBoundNum:  $\underline{\mathbf{1}}$ 

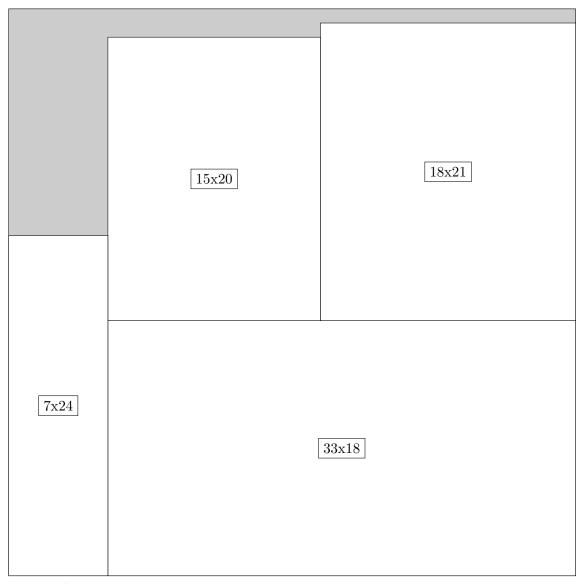
isOpt: **true** 

TimeOnInitSolution:  $\underline{600.000 \text{ s}}$ 

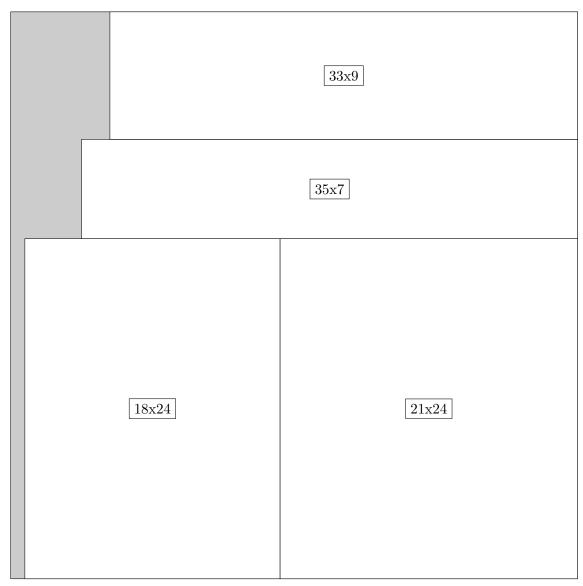
TimeOnPrimal: 0.000 sTimeOnPricing: 0.000 sTimeOnRmp: 0.078 sTotalTime: 600.344 s



$$\begin{array}{l} w = 30 \; , \; h = 18 \; , \; x = 10 \; , \; y = 0 \; , \; v = 540 \\ w = 6 \; , \; h = 17 \; , \; x = 4 \; , \; y = 0 \; , \; v = 102 \\ w = 3 \; , \; h = 16 \; , \; x = 1 \; , \; y = 0 \; , \; v = 48 \\ w = 23 \; , \; h = 22 \; , \; x = 17 \; , \; y = 18 \; , \; v = 506 \\ w = 4 \; , \; h = 21 \; , \; x = 13 \; , \; y = 18 \; , \; v = 84 \\ w = 12 \; , \; h = 19 \; , \; x = 1 \; , \; y = 18 \; , \; v = 228 \end{array}$$



 $\begin{array}{l} w = \! 33 \ , \ h = \! 18 \ , \ x = \! 7 \ , \ y = \! 0 \ , \ v = \! 594 \\ w = \! 18 \ , \ h = \! 21 \ , \ x = \! 22 \ , \ y = \! 18 \ , \ v = \! 378 \\ w = \! 15 \ , \ h = \! 20 \ , \ x = \! 7 \ , \ y = \! 18 \ , \ v = \! 300 \\ w = \! 7 \ , \ h = \! 24 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 168 \end{array}$ 

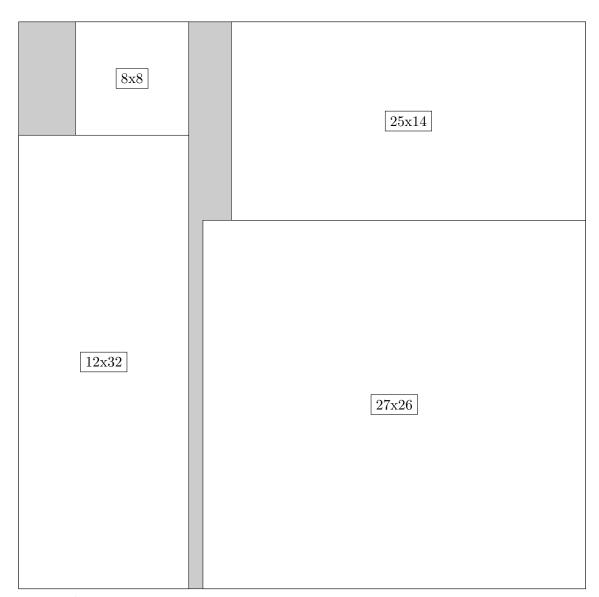


$$w = 21$$
,  $h = 24$ ,  $x = 19$ ,  $y = 0$ ,  $v = 504$ 

$$w = 18$$
,  $h = 24$ ,  $x = 1$ ,  $y = 0$ ,  $v = 432$ 

$$w$$
 =35 ,  $h$  =7 ,  $x$  =5 ,  $y$  =24 ,  $v$  =245

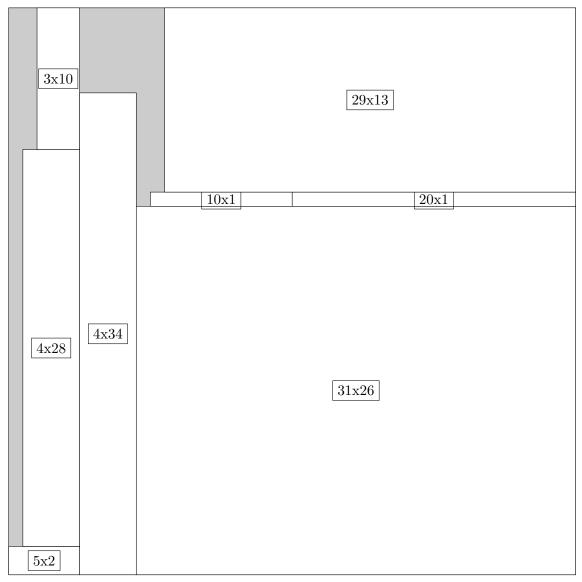
$$w=\!33$$
 ,  $h=\!9$  ,  $x=\!7$  ,  $y=\!31$  ,  $v=\!297$ 



$$\begin{array}{l} w = \! 27 \ , \ h = \! 26 \ , \ x = \! 13 \ , \ y = \! 0 \ , \ v = \! 702 \\ w = \! 25 \ , \ h = \! 14 \ , \ x = \! 15 \ , \ y = \! 26 \ , \ v = \! 350 \end{array}$$

$$\le =12$$
 , h =32 , x =0 , y =0 , v =384

$$w = 8$$
,  $h = 8$ ,  $x = 4$ ,  $y = 32$ ,  $v = 64$ 



$$w = 31$$
,  $h = 26$ ,  $x = 9$ ,  $y = 0$ ,  $v = 806$ 

$$\le =20$$
 , h =1 , x =20 , y =26 , v =20

$$w = 10$$
,  $h = 1$ ,  $x = 10$ ,  $y = 26$ ,  $v = 10$ 

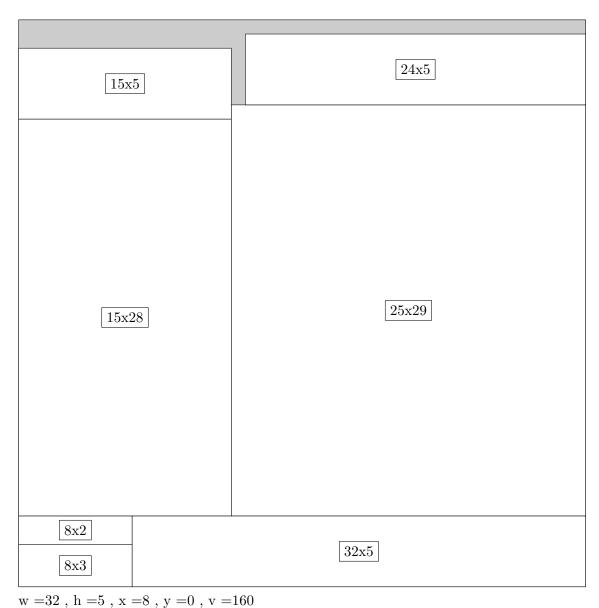
$$w = 29$$
,  $h = 13$ ,  $x = 11$ ,  $y = 27$ ,  $v = 377$ 

$$\mathbf{w}$$
 =4 , h =34 , x =5 , y =0 , v =136

$$\mathbf{w}$$
 =5 ,  $\mathbf{h}$  =2 ,  $\mathbf{x}$  =0 ,  $\mathbf{y}$  =0 ,  $\mathbf{v}$  =10

$$\mathbf{w}$$
 =4 , h =28 , x =1 , y =2 , v =112

$$\mathbf{w}$$
 =3 , h =10 , x =2 , y =30 , v =30



 $\le =15$  , h=5 , x=0 , y=33 , v=75

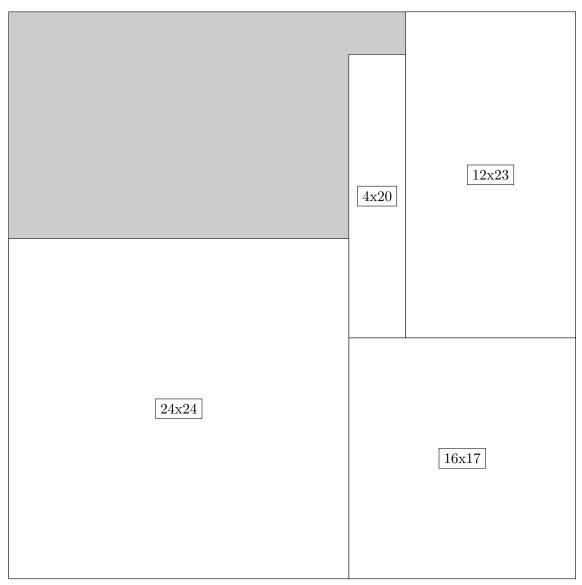
19x11	20x18
20x29	$20\mathrm{x}22$

$$\le =20$$
 , h =22 , x =20 , y =0 , v =440

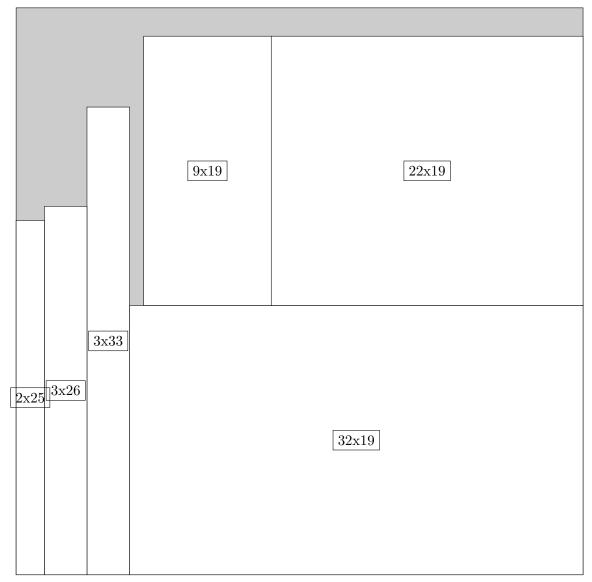
$$\le =20$$
 ,  $h$  =18 ,  $x$  =20 ,  $y$  =22 ,  $v$  =360

$$\le =20$$
 , h =29 , x =0 , y =0 , v =580

$$\le =19$$
 ,  $= 11$  ,  $= 11$  ,  $= 11$  ,  $= 129$  ,  $= 1209$ 



 $\begin{array}{l} w = \! 16 \ , \ h = \! 17 \ , \ x = \! 24 \ , \ y = \! 0 \ , \ v = \! 272 \\ w = \! 12 \ , \ h = \! 23 \ , \ x = \! 28 \ , \ y = \! 17 \ , \ v = \! 276 \\ w = \! 4 \ , \ h = \! 20 \ , \ x = \! 24 \ , \ y = \! 17 \ , \ v = \! 80 \\ w = \! 24 \ , \ h = \! 24 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 576 \end{array}$ 



$$w = 32$$
,  $h = 19$ ,  $x = 8$ ,  $y = 0$ ,  $v = 608$ 

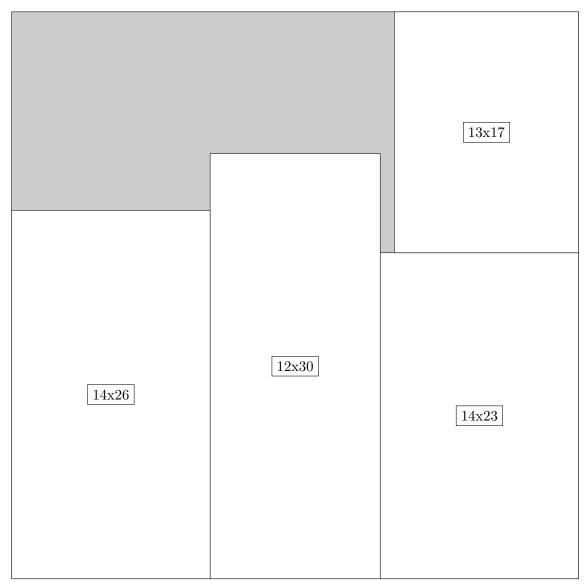
$$\le =22$$
 ,  $h$  =19 ,  $x$  =18 ,  $y$  =19 ,  $v$  =418

$$\mathbf{w}$$
 =9 , h =19 , x =9 , y =19 , v =171

$$\le =3$$
 , h =33 , x =5 , y =0 , v =99

$$\mathbf{w}$$
 =3 , h =26 , x =2 , y =0 , v =78

$$\mathbf{w}$$
 =2 , h =25 , x =0 , y =0 , v =50

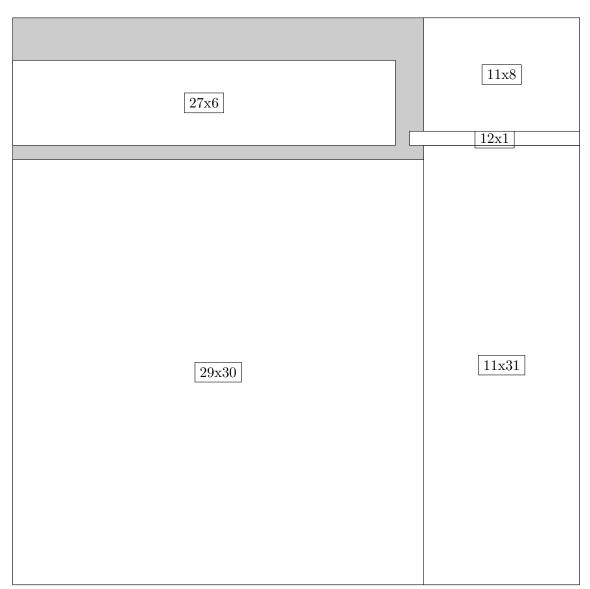


$$\le =14$$
 , h =23 , x =26 , y =0 , v =322

$$\le =13$$
 ,  $h$  =17 ,  $x$  =27 ,  $y$  =23 ,  $v$  =221

$$\le =12$$
 , h =30 , x =14 , y =0 , v =360

$$\le =14$$
 ,  $h$  =26 ,  $x$  =0 ,  $y$  =0 ,  $v$  =364



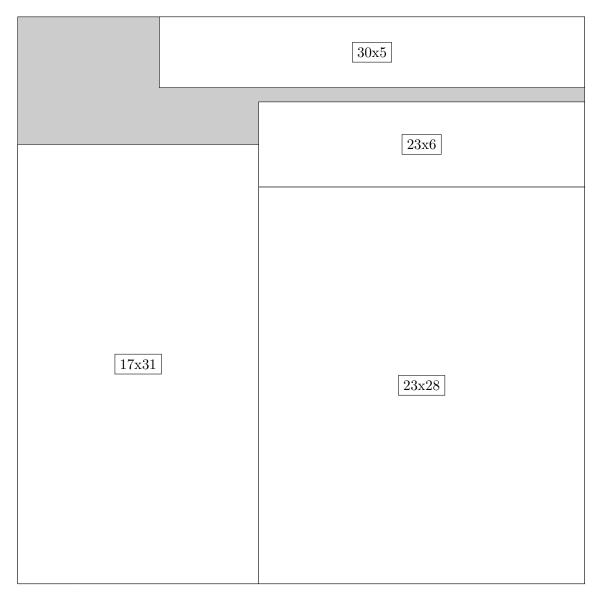
$$\le =11$$
 ,  $h=31$  ,  $x=29$  ,  $y=0$  ,  $v=341$ 

$$\le =29$$
 , h =30 , x =0 , y =0 , v =870

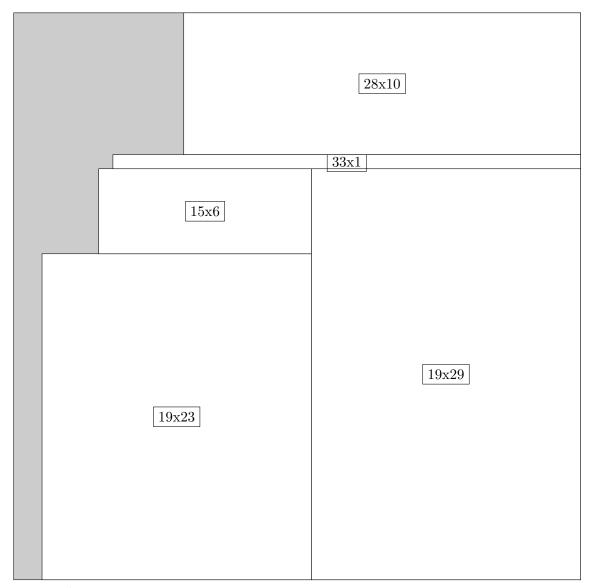
$$\le =12$$
 ,  $h$  =1 ,  $x$  =28 ,  $y$  =31 ,  $v$  =12

$$\le =11$$
 ,  $h$  =8 ,  $x$  =29 ,  $y$  =32 ,  $v$  =88

$$\le =27$$
 , h =6 , x =0 , y =31 , v =162



 $\begin{array}{l} w=23 \ , \ h=28 \ , \ x=17 \ , \ y=0 \ , \ v=644 \\ w=23 \ , \ h=6 \ , \ x=17 \ , \ y=28 \ , \ v=138 \\ w=17 \ , \ h=31 \ , \ x=0 \ , \ y=0 \ , \ v=527 \\ w=30 \ , \ h=5 \ , \ x=10 \ , \ y=35 \ , \ v=150 \end{array}$ 



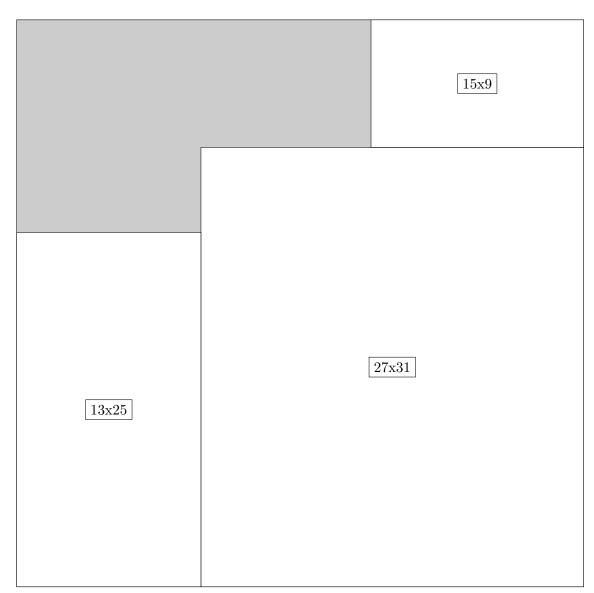
$$\le =19$$
 , h =29 , x =21 , y =0 , v =551

$$\le =19$$
 , h =23 , x =2 , y =0 , v =437

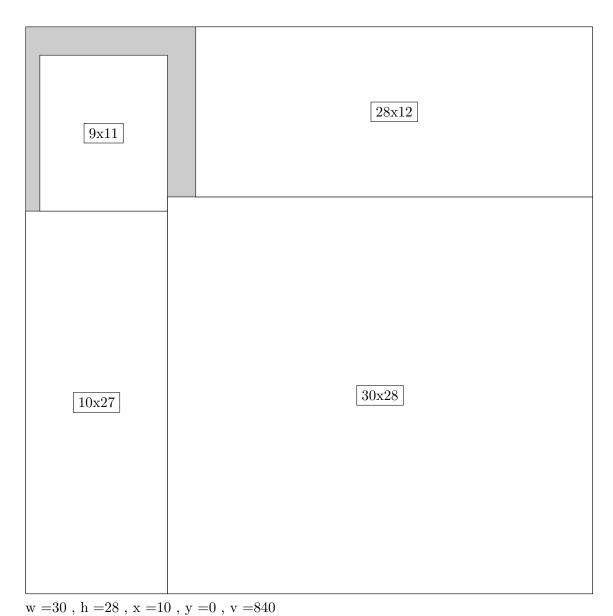
$$\le =15$$
 , h =6 , x =6 , y =23 , v =90

$$\le =33$$
 , h =1 , x =7 , y =29 , v =33

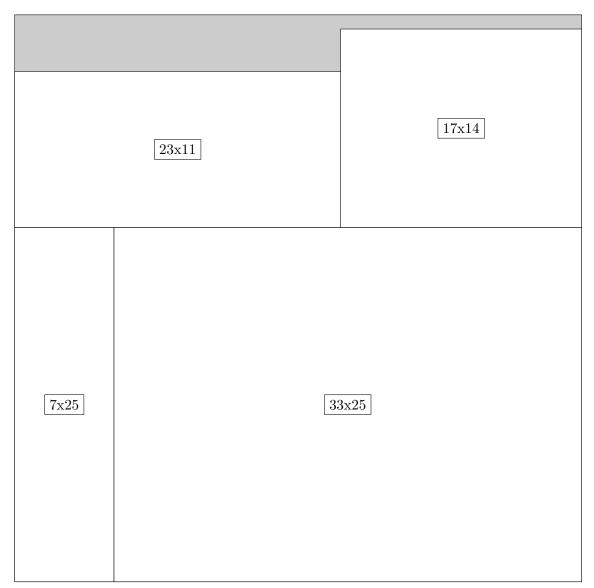
$$w=28$$
 ,  $h=\!10$  ,  $x=\!12$  ,  $y=\!30$  ,  $v=\!280$ 



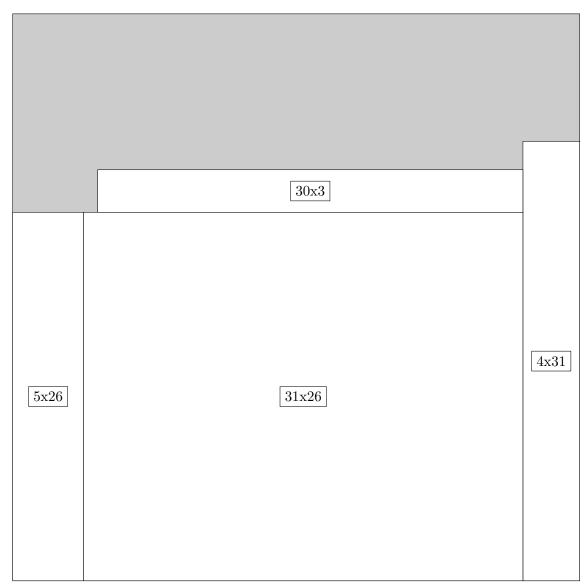
$$\begin{array}{l} w = \! 27 \; , \; h = \! 31 \; , \; x = \! 13 \; , \; y = \! 0 \; , \; v = \! 837 \\ w = \! 13 \; , \; h = \! 25 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 325 \\ w = \! 15 \; , \; h = \! 9 \; , \; x = \! 25 \; , \; y = \! 31 \; , \; v = \! 135 \end{array}$$



w = 9, h = 11, x = 1, y = 27, v = 99



$$\begin{array}{l} w = & 33 \ , \ h = & 25 \ , \ x = & 7 \ , \ y = & 0 \ , \ v = & 825 \\ w = & 7 \ , \ h = & 25 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 175 \\ w = & 17 \ , \ h = & 14 \ , \ x = & 23 \ , \ y = & 25 \ , \ v = & 238 \\ w = & 23 \ , \ h = & 11 \ , \ x = & 0 \ , \ y = & 25 \ , \ v = & 253 \end{array}$$



 $\begin{array}{l} w=4\ ,\, h=31\ ,\, x=36\ ,\, y=0\ ,\, v=124\\ w=31\ ,\, h=26\ ,\, x=5\ ,\, y=0\ ,\, v=806\\ w=30\ ,\, h=3\ ,\, x=6\ ,\, y=26\ ,\, v=90\\ w=5\ ,\, h=26\ ,\, x=0\ ,\, y=0\ ,\, v=130 \end{array}$