$ClassName: \ Class_03.2bp\text{-}49$

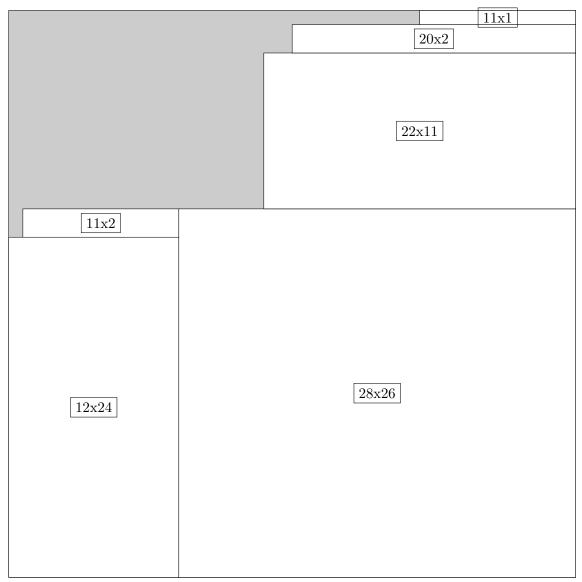
BinSize: $\underline{40 \times 40}$ ReduceSize: $\underline{40 \times 40}$

TypeNum: <u>99</u> Num: <u>100</u> OutS: <u>46400</u> InS: <u>37188</u> Rate: <u>0.801</u> UB: <u>29</u> LB: <u>29</u>

LBWithCut: $\underline{\mathbf{29}}$ NodeCount: $\underline{\mathbf{0}}$ PrimalNode: $\underline{\mathbf{0}}$ ColumnCount: $\underline{\mathbf{29}}$ TotalCutCount: $\underline{\mathbf{0}}$ RootCutCount: $\underline{\mathbf{0}}$ LPSolverCnt: $\underline{\mathbf{1}}$ PricingSolverCnt: $\underline{\mathbf{0}}$ BranchAndBoundNum: $\underline{\mathbf{1}}$

isOpt: **true**

 $\begin{array}{ll} \text{TimeOnPrimal: } \underline{0.000 \text{ s}} \\ \text{TimeOnPricing: } \underline{0.000 \text{ s}} \\ \text{TimeOnRmp: } \underline{0.078 \text{ s}} \\ \text{TotalTime: } \underline{0.218 \text{ s}} \end{array}$



$$\le =28$$
 , h =26 , x =12 , y =0 , v =728

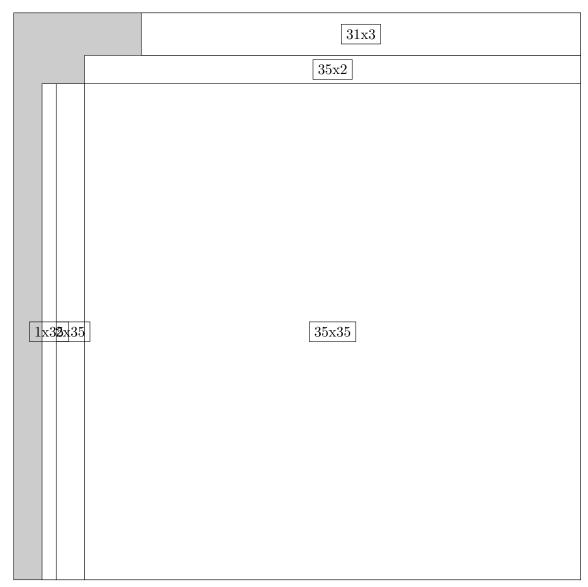
$$\mathbf{w}$$
 =12 , h =24 , x =0 , y =0 , v =288

$$\le =11$$
 , $h=2$, $x=1$, $y=24$, $v=22$

$$w = 22$$
, $h = 11$, $x = 18$, $y = 26$, $v = 242$

$$\le =20$$
 , h =2 , x =20 , y =37 , v =40

$$w = 11$$
, $h = 1$, $x = 29$, $y = 39$, $v = 11$



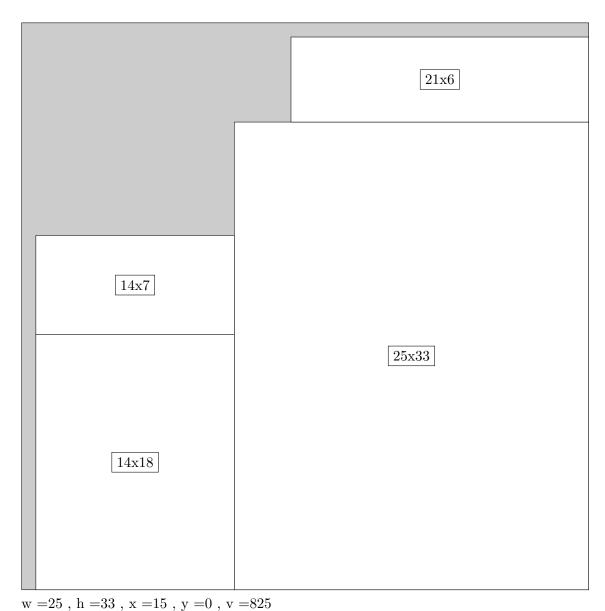
 ≤ 35 , $h = \! 35$, $x = \! 5$, $y = \! 0$, $v = \! 1225$

w =35 , h =2 , x =5 , y =35 , v =70

 $\le =31$, h=3 , x=9 , y=37 , v=93

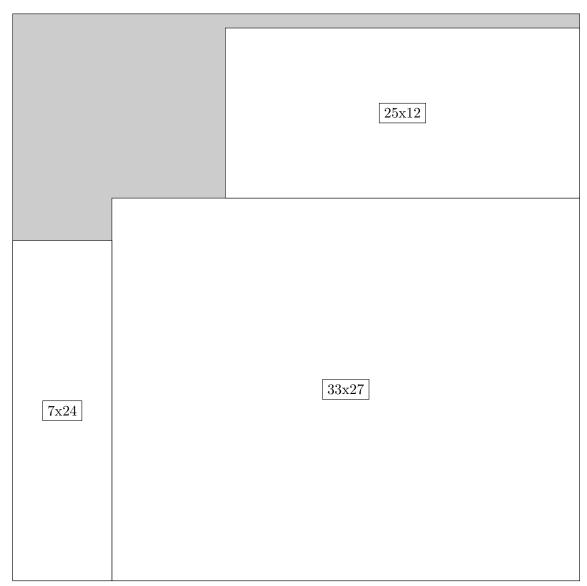
 \mathbf{w} =2 , h =35 , x =3 , y =0 , v =70

 \mathbf{w} =1 , h =35 , x =2 , y =0 , v =35

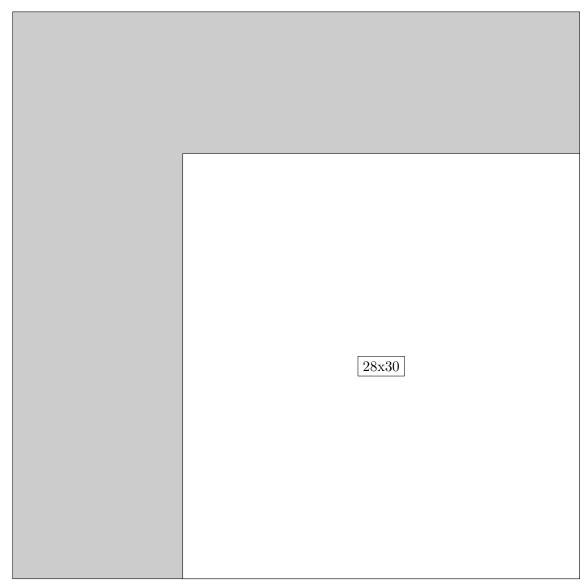


$$\le =14$$
 , h =18 , x =1 , y =0 , v =252

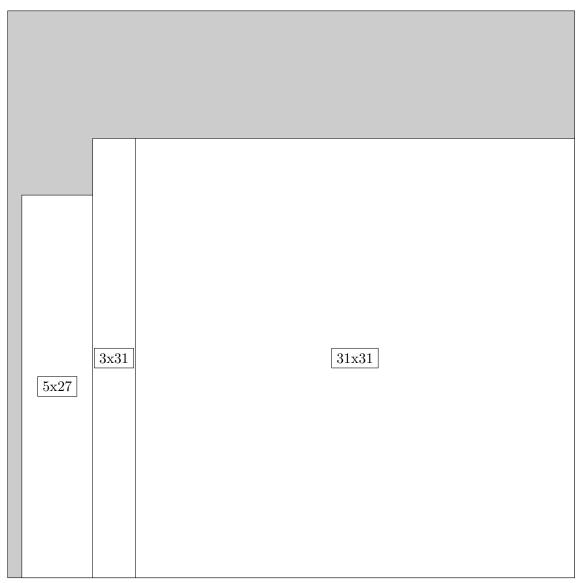
$$\mathbf{w}$$
 =14 , h =7 , x =1 , y =18 , v =98



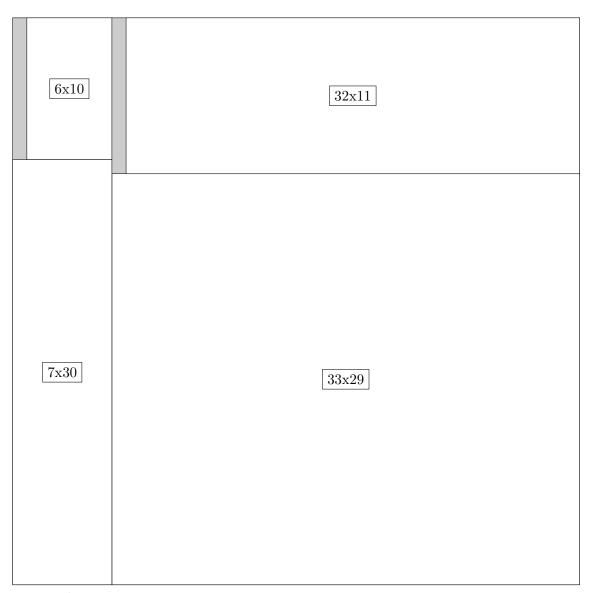
 $\begin{array}{l} w = \! 33 \ , \ h = \! 27 \ , \ x = \! 7 \ , \ y = \! 0 \ , \ v = \! 891 \\ w = \! 25 \ , \ h = \! 12 \ , \ x = \! 15 \ , \ y = \! 27 \ , \ v = \! 300 \\ w = \! 7 \ , \ h = \! 24 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 168 \end{array}$



 $\le =28$, h =30 , x =12 , y =0 , v =840



 $\begin{array}{l} w = & 31 \ , \ h = & 31 \ , \ x = & 9 \ , \ y = & 0 \ , \ v = & 961 \\ w = & 3 \ , \ h = & 31 \ , \ x = & 6 \ , \ y = & 0 \ , \ v = & 93 \\ w = & 5 \ , \ h = & 27 \ , \ x = & 1 \ , \ y = & 0 \ , \ v = & 135 \end{array}$



 $\begin{array}{l} w = \! 33 \; , \; h = \! 29 \; , \; x = \! 7 \; , \; y = \! 0 \; , \; v = \! 957 \\ w = \! 32 \; , \; h = \! 11 \; , \; x = \! 8 \; , \; y = \! 29 \; , \; v = \! 352 \\ w = \! 7 \; , \; h = \! 30 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 210 \\ w = \! 6 \; , \; h = \! 10 \; , \; x = \! 1 \; , \; y = \! 30 \; , \; v = \! 60 \end{array}$



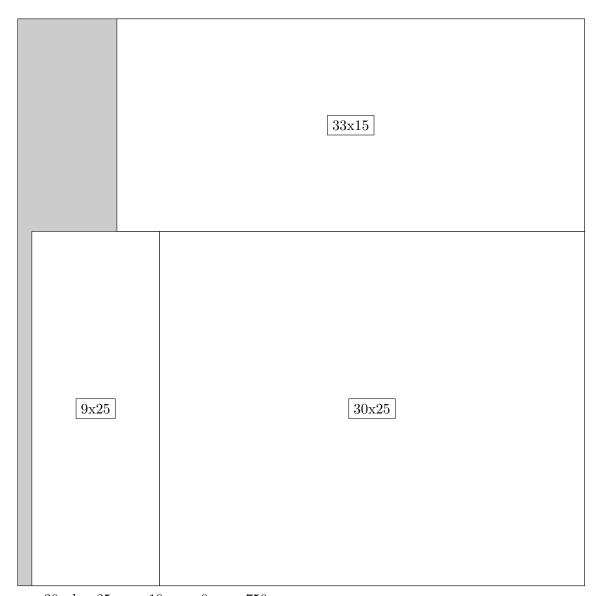
$$\le =32$$
 , h =23 , x =8 , y =0 , v =736

$$\mathbf{w}$$
 =2 , h =20 , x =6 , y =0 , v =40

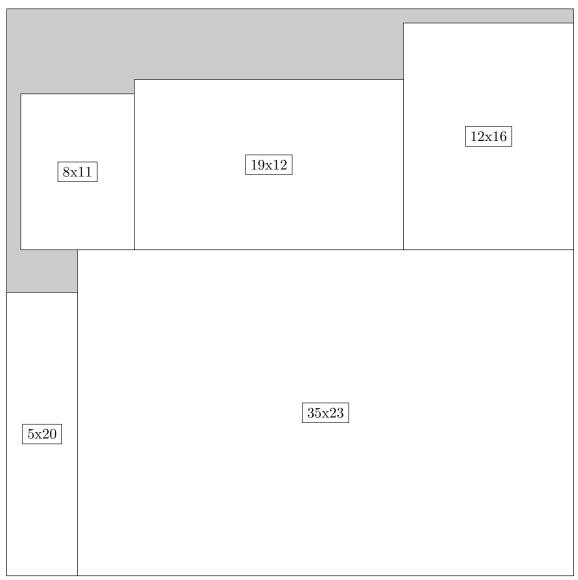
$$\mathbf{w}$$
 =6 , h =18 , x =0 , y =0 , v =108

$$\le =32$$
 , $h=2$, $x=8$, $y=23$, $v=64$

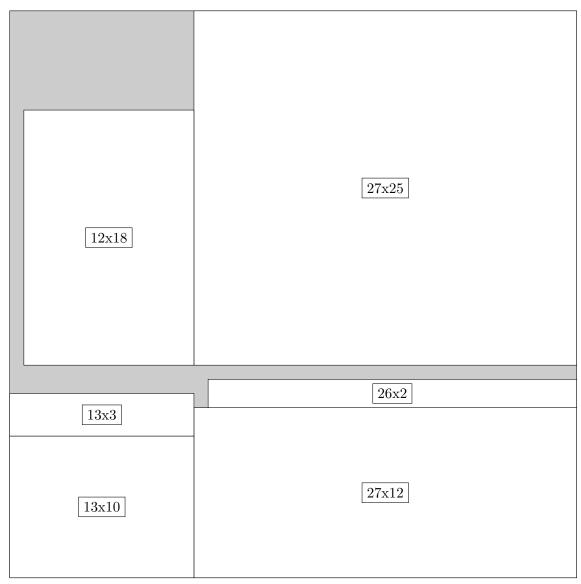
$$\le =29$$
 , h =12 , x =11 , y =25 , v =348



$$\begin{array}{l} w = & 30 \ , \ h = & 25 \ , \ x = & 10 \ , \ y = & 0 \ , \ v = & 750 \\ w = & 9 \ , \ h = & 25 \ , \ x = & 1 \ , \ y = & 0 \ , \ v = & 225 \\ w = & 33 \ , \ h = & 15 \ , \ x = & 7 \ , \ y = & 25 \ , \ v = & 495 \end{array}$$



$$\begin{array}{l} w = & 35 \ , \ h = & 23 \ , \ x = & 5 \ , \ y = & 0 \ , \ v = & 805 \\ w = & 5 \ , \ h = & 20 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 100 \\ w = & 12 \ , \ h = & 16 \ , \ x = & 28 \ , \ y = & 23 \ , \ v = & 192 \\ w = & 19 \ , \ h = & 12 \ , \ x = & 9 \ , \ y = & 23 \ , \ v = & 228 \\ w = & 8 \ , \ h = & 11 \ , \ x = & 1 \ , \ y = & 23 \ , \ v = & 88 \end{array}$$



$$\le =27$$
 , h =12 , x =13 , y =0 , v =324

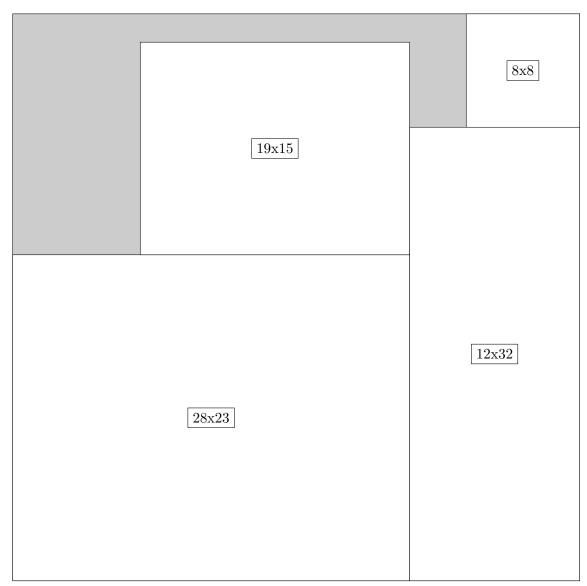
$$\mathbf{w}$$
 =26 , \mathbf{h} =2 , \mathbf{x} =14 , \mathbf{y} =12 , \mathbf{v} =52

$$\le =13$$
 , h =10 , x =0 , y =0 , v =130

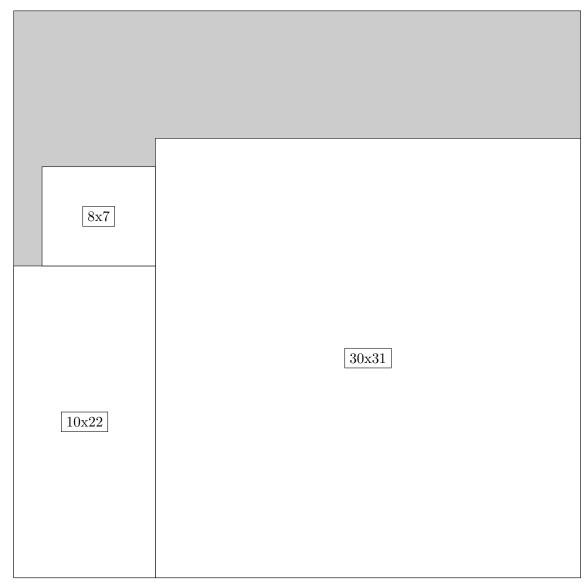
$$\le =13$$
 , h =3 , x =0 , y =10 , v =39

$$\le =27$$
 , h =25 , x =13 , y =15 , v =675

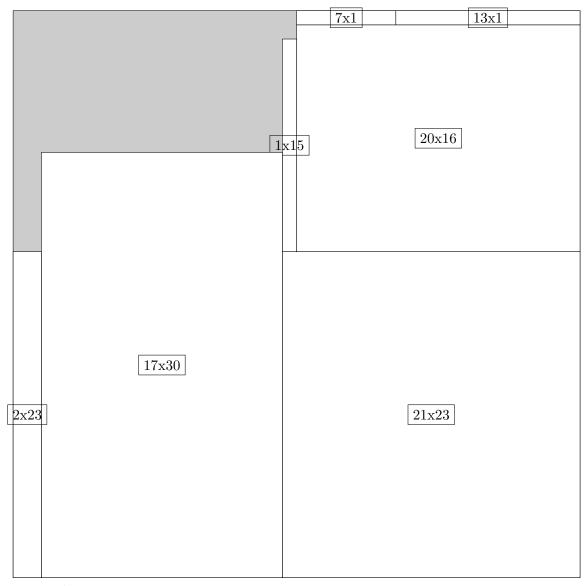
$$w$$
 =12 , h =18 , x =1 , y =15 , v =216



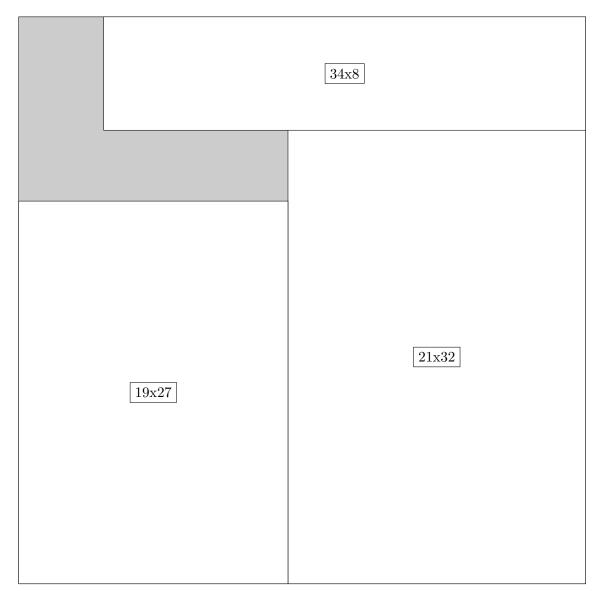
 $\begin{array}{l} w = & 12 \;,\; h = & 32 \;,\; x = & 28 \;,\; y = & 0 \;,\; v = & 384 \\ w = & 8 \;,\; h = & 8 \;,\; x = & 32 \;,\; y = & 32 \;,\; v = & 64 \\ w = & 28 \;,\; h = & 23 \;,\; x = & 0 \;,\; y = & 0 \;,\; v = & 644 \\ w = & 19 \;,\; h = & 15 \;,\; x = & 9 \;,\; y = & 23 \;,\; v = & 285 \end{array}$



$$\begin{array}{l} w = & 30 \ , \ h = & 31 \ , \ x = & 10 \ , \ y = & 0 \ , \ v = & 930 \\ w = & 10 \ , \ h = & 22 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 220 \\ w = & 8 \ , \ h = & 7 \ , \ x = & 2 \ , \ y = & 22 \ , \ v = & 56 \end{array}$$

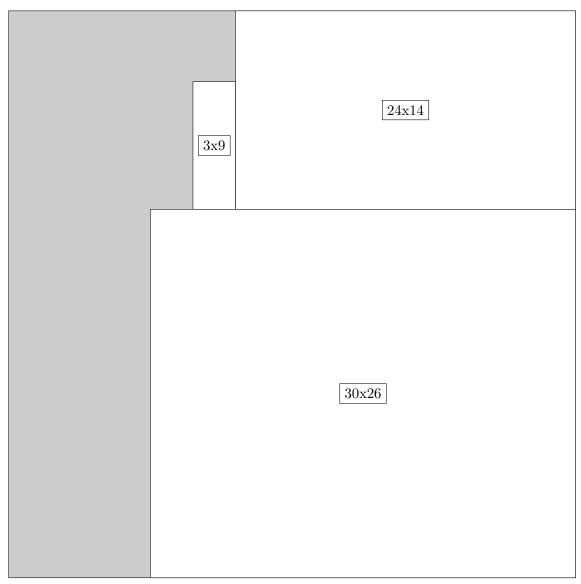


 $\begin{array}{l} w=21 \;,\; h=23 \;,\; x=19 \;,\; y=0 \;,\; v=483 \\ w=20 \;,\; h=16 \;,\; x=20 \;,\; y=23 \;,\; v=320 \\ w=1 \;,\; h=15 \;,\; x=19 \;,\; y=23 \;,\; v=15 \\ w=13 \;,\; h=1 \;,\; x=27 \;,\; y=39 \;,\; v=13 \\ w=7 \;,\; h=1 \;,\; x=20 \;,\; y=39 \;,\; v=7 \\ w=17 \;,\; h=30 \;,\; x=2 \;,\; y=0 \;,\; v=510 \\ w=2 \;,\; h=23 \;,\; x=0 \;,\; y=0 \;,\; v=46 \end{array}$

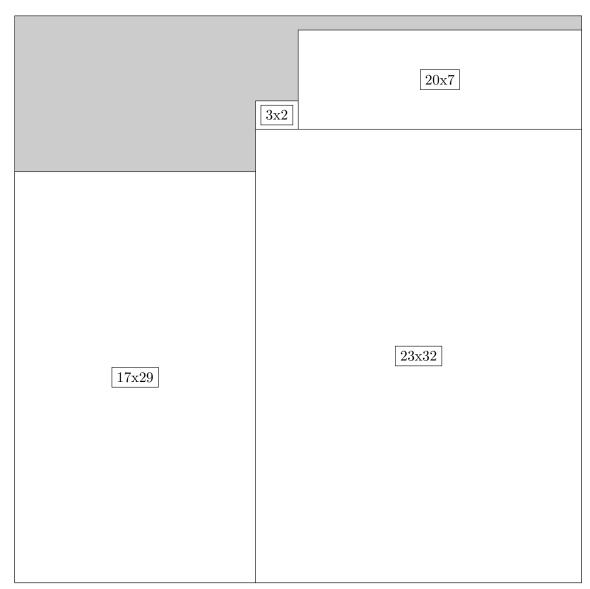


$$\begin{array}{l} w = \! 21 \ , \ h = \! 32 \ , \ x = \! 19 \ , \ y = \! 0 \ , \ v = \! 672 \\ w = \! 19 \ , \ h = \! 27 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 513 \end{array}$$

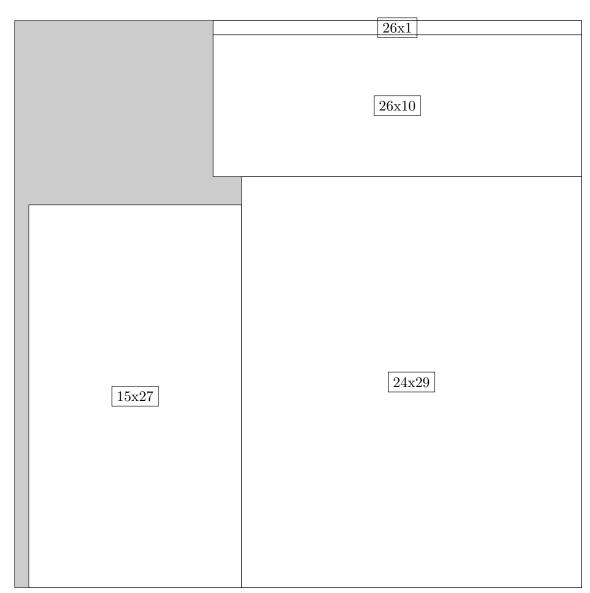
$$\le =34$$
 , h =8 , x =6 , y =32 , v =272



$$\begin{array}{l} w = & 30 \ , \ h = & 26 \ , \ x = & 10 \ , \ y = & 0 \ , \ v = & 780 \\ w = & 24 \ , \ h = & 14 \ , \ x = & 16 \ , \ y = & 26 \ , \ v = & 336 \\ w = & 3 \ , \ h = & 9 \ , \ x = & 13 \ , \ y = & 26 \ , \ v = & 27 \end{array}$$



 $\begin{array}{l} w=23 \ , \ h=32 \ , \ x=17 \ , \ y=0 \ , \ v=736 \\ w=20 \ , \ h=7 \ , \ x=20 \ , \ y=32 \ , \ v=140 \\ w=3 \ , \ h=2 \ , \ x=17 \ , \ y=32 \ , \ v=6 \\ w=17 \ , \ h=29 \ , \ x=0 \ , \ y=0 \ , \ v=493 \end{array}$

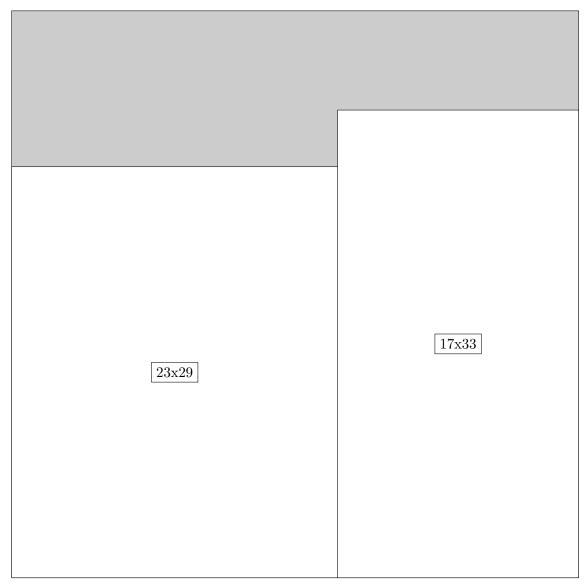


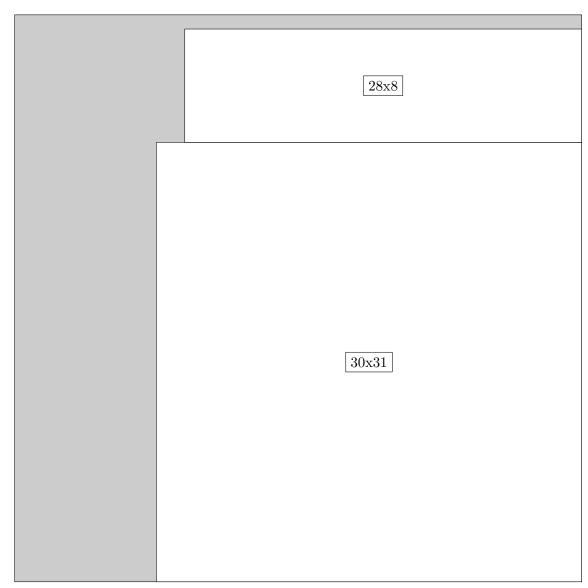
$$\le =24$$
 , h =29 , x =16 , y =0 , v =696

$$\le =15$$
 , h =27 , x =1 , y =0 , v =405

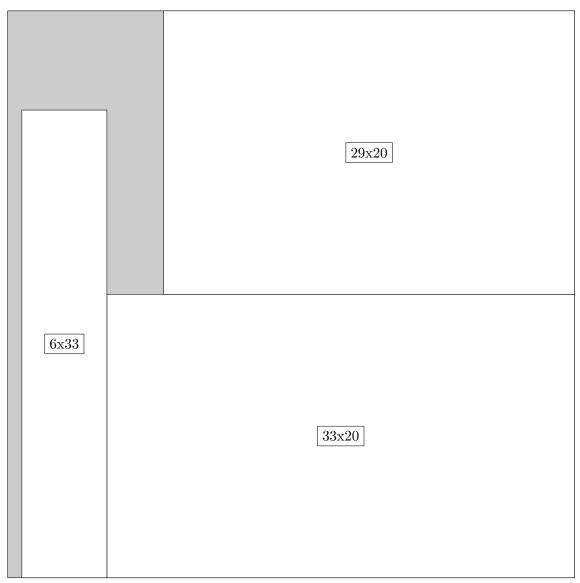
$$\le =26$$
 , h =10 , x =14 , y =29 , v =260

$$\le =26$$
 , h =1 , x =14 , y =39 , v =26

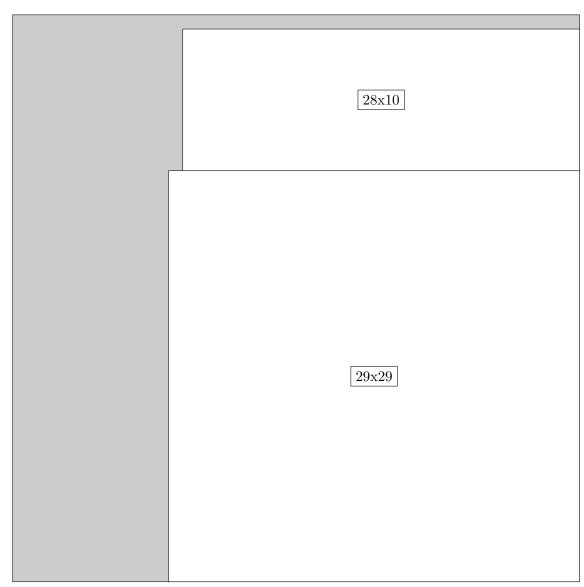




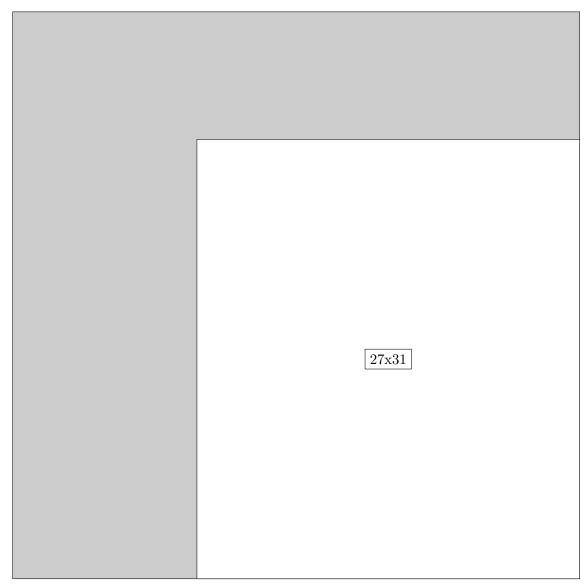
$$\begin{array}{l} w = & 30 \ , \ h = & 31 \ , \ x = & 10 \ , \ y = & 0 \ , \ v = & 930 \\ w = & 28 \ , \ h = & 8 \ , \ x = & 12 \ , \ y = & 31 \ , \ v = & 224 \end{array}$$



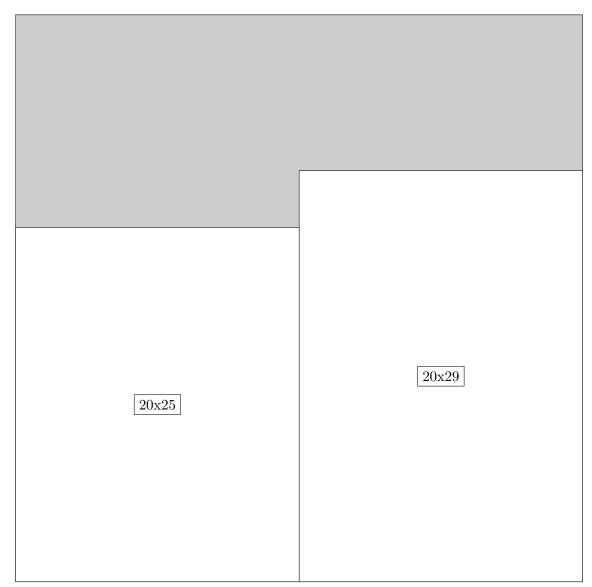
$$\begin{array}{l} w = \! 33 \ , \ h = \! 20 \ , \ x = \! 7 \ , \ y = \! 0 \ , \ v = \! 660 \\ w = \! 29 \ , \ h = \! 20 \ , \ x = \! 11 \ , \ y = \! 20 \ , \ v = \! 580 \\ w = \! 6 \ , \ h = \! 33 \ , \ x = \! 1 \ , \ y = \! 0 \ , \ v = \! 198 \end{array}$$



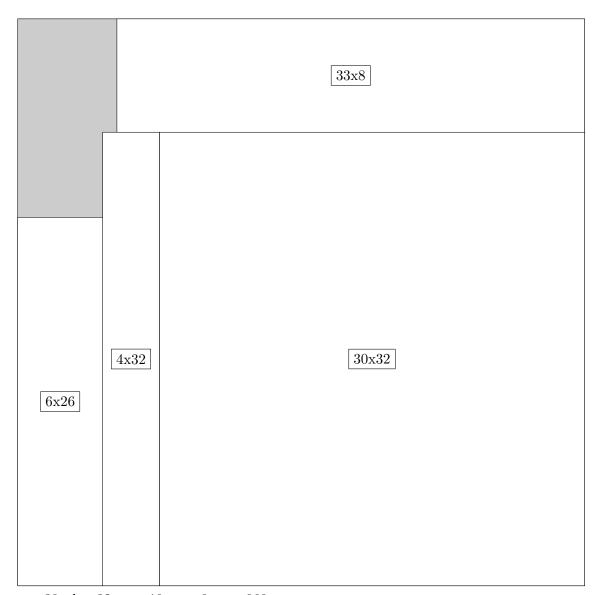
$$\begin{array}{l} w = \! 29 \ , \ h = \! 29 \ , \ x = \! 11 \ , \ y = \! 0 \ , \ v = \! 841 \\ w = \! 28 \ , \ h = \! 10 \ , \ x = \! 12 \ , \ y = \! 29 \ , \ v = \! 280 \end{array}$$



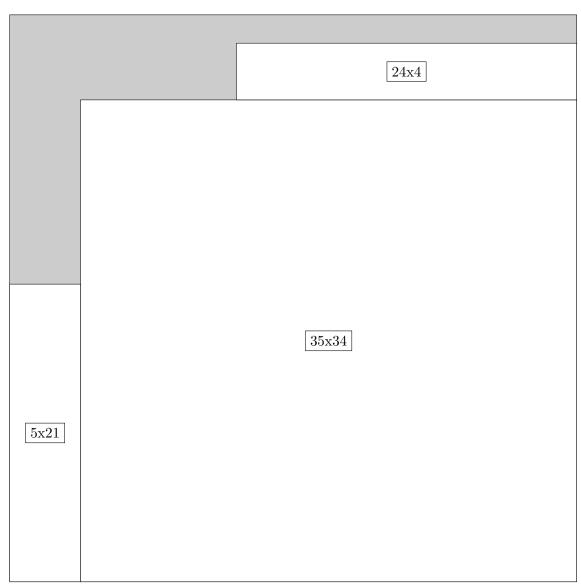
 $\le =27$, h =31 , x =13 , y =0 , v =837



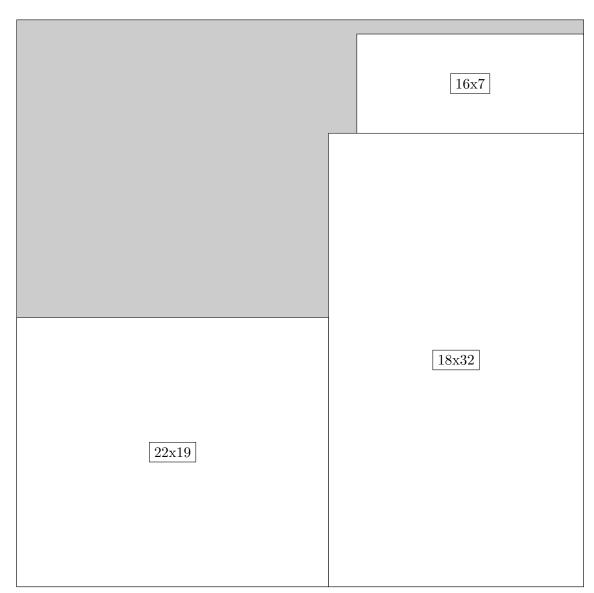
$$\begin{array}{l} w = 20 \ , \, h = 29 \ , \, x = 20 \ , \, y = 0 \ , \, v = 580 \\ w = 20 \ , \, h = 25 \ , \, x = 0 \ , \, y = 0 \ , \, v = 500 \end{array}$$



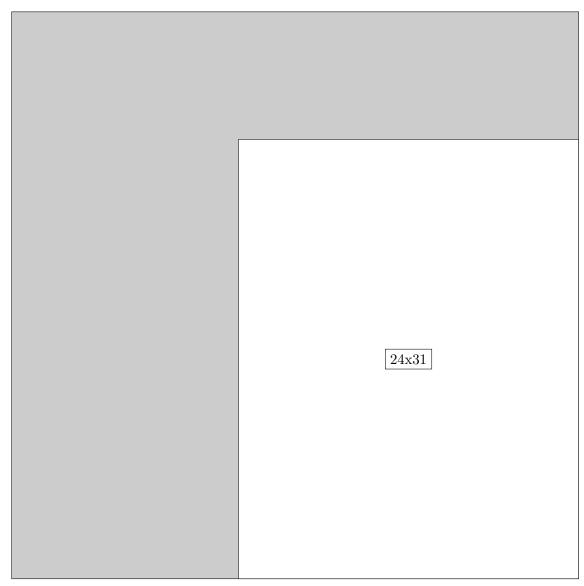
 $\begin{array}{l} w = & 30 \ , \ h = & 32 \ , \ x = & 10 \ , \ y = & 0 \ , \ v = & 960 \\ w = & 4 \ , \ h = & 32 \ , \ x = & 6 \ , \ y = & 0 \ , \ v = & 128 \\ w = & 6 \ , \ h = & 26 \ , \ x = & 0 \ , \ y = & 0 \ , \ v = & 156 \\ w = & 33 \ , \ h = & 8 \ , \ x = & 7 \ , \ y = & 32 \ , \ v = & 264 \end{array}$



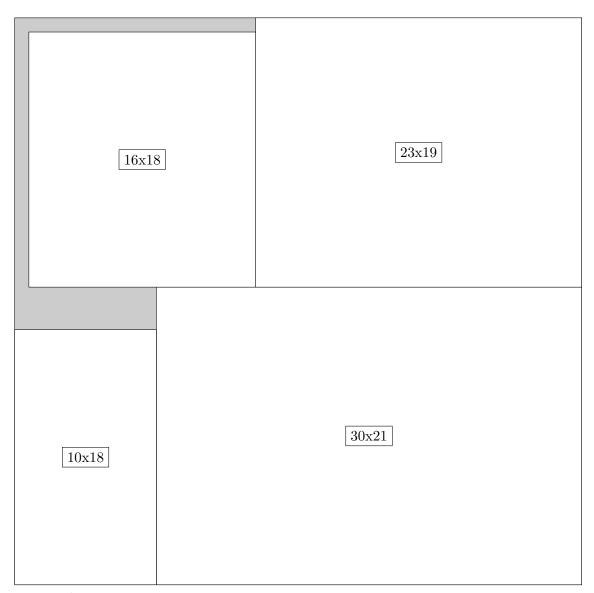
 $\begin{array}{l} w = \! 35 \; , \; h = \! 34 \; , \; x = \! 5 \; , \; y = \! 0 \; , \; v = \! 1190 \\ w = \! 5 \; , \; h = \! 21 \; , \; x = \! 0 \; , \; y = \! 0 \; , \; v = \! 105 \\ w = \! 24 \; , \; h = \! 4 \; , \; x = \! 16 \; , \; y = \! 34 \; , \; v = \! 96 \end{array}$



$$\begin{array}{l} w = \! 18 \ , \ h = \! 32 \ , \ x = \! 22 \ , \ y = \! 0 \ , \ v = \! 576 \\ w = \! 16 \ , \ h = \! 7 \ , \ x = \! 24 \ , \ y = \! 32 \ , \ v = \! 112 \\ w = \! 22 \ , \ h = \! 19 \ , \ x = \! 0 \ , \ y = \! 0 \ , \ v = \! 418 \end{array}$$



 $\le =24$, h =31 , x =16 , y =0 , v =744



$$\le =30$$
 , h =21 , x =10 , y =0 , v =630

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

$$\le =23$$
 , h =19 , x =17 , y =21 , v =437

$$\mathbf{w}$$
 =16 , h =18 , x =1 , y =21 , v =288