## MATH 480 - Homework 7

6

1 2

 $\dim = 5$ 

5

 $\dim = 9$ 

1 2

3 4 5 6

1

 $\dim = 9$ 

2 3

4

5 6

1

 $\dim=10$ 

2

3

4

 $\dim=10$ 

 $\begin{array}{c|c}
\hline
1\\
2\\
\hline
3&4\\
\hline
\end{array}$   $\begin{array}{c|c}
\hline
5\\
\hline
\end{array}$ 

 $\frac{1}{2} \qquad \qquad \dim = 10$ 

3 4 5

6

 $\boxed{1}$   $\dim = 14$ 

2 3 4

5 6

 $\dim = 14$ 

 1
 2

 3
 4
 5
 6

 $\dim = 14$ 

1 2 3

 $\dim = 14$ 

1 2 3 4

5 6

 $\dim=14$ 

1 2 3

4 | 5 | 6

 $\boxed{\frac{1}{2}} \qquad \boxed{2} \qquad \dim = 14$ 

 4

 6

 $\dim=15$ 

1 2

3 4 5 6

 $\begin{array}{c|c} 1 & 2 \\ \hline 4 & 5 \end{array} \quad \text{dim} = 16$ 

 $\boxed{1} \qquad \dim = 16$ 

2 3 4 5 6

 $\boxed{1 \quad 2} \qquad \boxed{3} \qquad \dim = 16$ 

6

 $\boxed{1} \qquad \boxed{2} \qquad \dim = 16$ 

4 5 6

2 3 4 5

5 6

 $\begin{array}{c|c}
1 & \dim = 19 \\
\hline
2 & 3 \\
\hline
4
\end{array}$ 

 $\boxed{\frac{1}{2}} \quad \dim = 19$ 

3

6

5

 $\dim = 19$ 

2

 $\frac{2}{4}$ 

1 3

6

2

 $\dim = 19$ 

3 4

5

6

 $\dim = 19$ 

1 2 5

3 4

6

dim = 19

3 4

5

 $\dim = 19$ 

1 2 3 4

6

 $\frac{1}{2} \quad \dim = 19$ 

 $\begin{bmatrix} 3 \\ 5 \end{bmatrix}$ 

 $\boxed{1}$   $\dim = 19$ 

5

 $\dim = 20$ 

 $\begin{array}{c|c}
\hline
2 & 3
\end{array}
\quad \boxed{4}
\quad \boxed{5}$ 

6

 $\boxed{\frac{1}{2}} \quad \dim = 20$ 

3 4 5

6

 $\boxed{1} \qquad \boxed{2}$ 

 3
 4
 5

 6

 $\begin{array}{c|c}
\hline
1\\
3
\end{array}
\qquad \begin{array}{c|c}
\hline
4\\
\hline
5
\end{array}
\qquad \text{dim} = 21$ 

 $\boxed{1 \quad 2} \qquad \boxed{3} \qquad \qquad \dim = 21$ 

4 5

 $\dim = 21$ 

 $\begin{array}{c|c} 3 & 1 & 2 \\ \hline 4 & 5 \end{array}$ 

 $\dim = 21$ 

 1
 2

 3
 4

 5
 6

 $\boxed{1} \qquad \boxed{2} \qquad \boxed{3} \qquad \dim = 21$ 

6

 $\dim = 21$ 

3 4

5 6

 $\dim = 21$ 

3 4

 $\begin{array}{c}
\boxed{1} \\
\boxed{2} \\
\boxed{4}
\end{array}$ 

 $\begin{array}{c|c}
1 & 2 \\
\hline
 & 5
\end{array}$   $\dim = 24$ 

5 6

 $\dim = 24$   $\boxed{1 \mid 2 \mid 3} \qquad \boxed{4}$ 

6

 $\boxed{1}$   $\boxed{2}$ 

3 4 5 6

 $\begin{array}{c|c}
1 & 2 \\
\hline
 & 3 & 4 \\
\hline
 & 5
\end{array}$   $\begin{array}{c|c}
6 & \\
\end{array}$ 

$$\begin{array}{|c|c|c|c|} \hline 1 & 2 & 3 & 4 \\ \hline 5 & & & \\ \hline \end{array}$$
 dim = 24

$$\begin{array}{|c|c|}
\hline
1 \\
\hline
2 \\
\hline
3
\end{array}$$

$$\dim = 24$$

$$\boxed{1} \qquad \qquad \boxed{2} \qquad \dim = 24$$

$$\boxed{1} \qquad \dim = 24$$

 $\boxed{1}$   $\dim = 24$ 

3 4 5 6

 $\boxed{1}$  2  $\dim = 24$ 

3 4 5 6

 $\dim = 24$ 

2

3 4 5 6

 $\dim = 26$ 

3 4 5

6

 $\frac{1}{2} \quad \text{dim} = 26$ 

 $\dim=26$ 

			1
2		3	4
	5		6

 $\boxed{1} \qquad \boxed{2}$ 

 3

 4
 5
 6

 $\boxed{1}$   $\dim = 26$ 

 3

 5
 6

 $\boxed{1} \qquad \boxed{2} \qquad \boxed{3} \qquad \dim = 26$ 

4 5

6

 $\frac{1}{2} \qquad \dim = 26$ 

5

 $\begin{array}{c|c}
1 & 2 & 3 \\
\hline
4 & 5
\end{array}$ 

6

 $\begin{array}{c|c}
\hline
1 & 2
\end{array} \qquad \boxed{3}$ 

 5

 $\boxed{1} \qquad \dim = 26$ 

2

 $\begin{array}{c|c}
3 & 4 \\
\hline
6
\end{array}$ 

 $\dim = 26$ 

2 3 4 5

 $\frac{1}{2} \qquad \dim = 26$ 

3

 $\dim = 26$ 

 2

 4
 5

 6

 $\dim = 26$   $\boxed{1}$   $\boxed{3}$ 

5 6

 $\boxed{1}$  dim = 26

2

 3
 4

 6

 $\boxed{1 \quad 2} \qquad \qquad \dim = 26$ 

 3
 4

 6

 $\boxed{1 \mid 2}$   $\dim = 26$ 

 $\dim=26$ 

1 2 3

4 5 6

1 2

 $\dim=26$ 

3

4 5

6

1 2

dim = 26

4

5

6

 $\frac{1}{1} \qquad \dim = 26$ 

3

 2

 4
 5

1 2

 $\dim = 26$ 

5

6

 $\begin{array}{c|c}
1 & 2 \\
\hline
 & 3
\end{array}$   $\dim = 30$ 

5 6

 $\begin{array}{c|c}
\hline
1 & \hline
2
\end{array}$ 

 3
 4

 6

4

 $\begin{array}{|c|c|c|}\hline 1 & 2 \\ \hline 2 & 4 \\ \hline \end{array} \quad \dim = 30$ 

5 6

 $\begin{vmatrix} 2 \\ 3 \end{vmatrix} 4$ 

5 6

 $\boxed{1 \quad 2} \qquad \qquad \dim = 30$ 

 $\boxed{1 \quad 2} \quad \dim = 30$ 

3

5 6

 $\boxed{1 \quad 2} \qquad \qquad \dim = 30$ 

3

4 5 6

 $\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & 
\end{array}$ 

 4
 5

 6

 $\boxed{1 \quad \boxed{2} \quad \boxed{3}} \quad \dim = 30$ 

 $\begin{bmatrix} 5 \end{bmatrix}$ 

 $\frac{1}{2}$   $\dim = 30$ 

 $\begin{array}{c|c}
\hline
1 \\
\hline
2 & 3
\end{array}$   $\overline{4} & 5$ 

6

 $\begin{array}{c|c}
\hline
1\\
4
\end{array}
\qquad \begin{array}{c|c}
\hline
2\\
\hline
5
\end{array}
\qquad \dim = 30$ 

 $\frac{1}{3} \qquad \qquad \dim = 30$ 

 4
 5

 6

 $\begin{array}{c|c}
\hline
1 & 2 \\
\hline
 & 3
\end{array}$ 

4 5 6

 $\dim = 30$ 

2 3 5 6  $\boxed{1} \qquad \boxed{2} \qquad \dim = 30$ 

4 5 6

 $\dim = 30$ 

 2
 3

 5
 6

 $\dim=30$ 

5

 $\boxed{1 \quad \text{dim} = 30}$ 

 4
 5

 6

 $\begin{array}{|c|c|c|c|} \hline 1 \\ \hline & 2 & 3 \\ \hline & & 4 \\ \hline \end{array}$  dim = 30

1 3

 $\dim = 30$ 

 3

 4
 5
 6

 $\dim = 30$ 

2 3

5 6

 $\boxed{2 \mid 3} \qquad \dim = 30$ 

4 5 6

 $\dim = 30$ 

 2
 3
 4

 5
 6

 $\begin{array}{c|c}
\hline
1 & \hline
2
\end{array}$ 

 $\boxed{1} \qquad \boxed{2 \mid 3} \qquad \qquad \dim = 30$ 

5 6

 $\boxed{1} \qquad \boxed{2} \qquad \dim = 30$ 

5 6

 $\dim = 35$ 

3 4

5 6

 $\dim = 35$ 

3 4

5 6

 $\boxed{1} \qquad \boxed{2} \qquad \dim = 35$ 

 $\boxed{1} \qquad \boxed{2} \qquad \dim = 35$ 

3 4 5

6

 $\begin{array}{c|c}
\hline
1 & \hline
2 & \dim = 35 \\
\hline
3 & \hline
\end{array}$ 

5 6

 $\boxed{1 \mid 2} \qquad \boxed{3} \qquad \dim = 35$ 

 4

 5

 6

 $\dim = 35$ 

 3
 4
 5

 6

 $\boxed{2}$ 

 $\dim = 35$   $\boxed{1}$   $\boxed{2}$ 

4 5 6

 $\frac{1}{2} \qquad \qquad \dim = 35$ 

6

 $\dim=35$ 

 $\begin{bmatrix} 1 \end{bmatrix}$   $\begin{bmatrix} 2 \end{bmatrix}$   $\begin{bmatrix} 3 \end{bmatrix}$ 

 4
 5

 6

 $\begin{array}{c|c}
\hline
1\\
\hline
3
\end{array}$ 

5 6

 $\boxed{1} \qquad \boxed{2 \mid 3} \quad \dim = 35$ 

 $\dim = 35$ 

1

 $\begin{bmatrix} 2 \end{bmatrix}$ 

5 6

1 2

 $\dim = 35$ 

3

5 6

 $\dim=35$ 

 $\begin{array}{c|c}
1 & 2 \\
\hline
& 3
\end{array}$ 

5 6

 $\dim = 35$ 

1 2 3

 4

 5
 6

1

 $\frac{2}{2} \quad \dim = 35$ 

3 4 5

5 6

6

$$\boxed{1} \qquad \boxed{2}$$

3 4 5

 $\boxed{1 \mid 2} \quad \dim = 35$ 

 3

 5

 6

 $\begin{array}{c|c}
 & \dim = 36 \\
\hline
2 & 3 \\
\hline
 & 4 \\
\hline
 & 5 \\
\hline
 & 6 \\
\end{array}$ 

$$\dim = 36$$

$$\begin{array}{c|c}
\hline
2 & 3 & \hline
 & 4 & \dim = 36 \\
\hline
 & 5 & \hline
 & 6 & \hline
\end{array}$$

$$\frac{1}{\text{dim}} = 36$$

$$1$$
 dim = 36

$$\boxed{1}$$
 dim = 36

$$\dim = 36$$



 $\boxed{1 \quad 2} \qquad \boxed{3} \qquad \dim = 36$   $\boxed{4}$ 

 $\begin{array}{c|c}
\hline
1\\
\hline
3 & 4
\end{array}$  dim = 36

6

5

 $\dim = 36$ 

 1
 2
 3

 4
 5

 6

 $\dim = 36$ 

3

4 5 6

 $\frac{1}{2} \qquad \dim = 40$ 

 3

 4

 5

5

1 2

 $\dim = 40$ 

3

4 5

 $\begin{array}{c|cccc}
\hline
1 & & & \\
\hline
2 & 3 & & 4
\end{array}$  dim = 40

5 6

 $\dim = 40$ 

 2
 3

 4
 5

 5
 6

1

 $\dim = 40$ 

3

 $\dim = 40$ 

3

 $\boxed{1} \qquad \boxed{2 \mid 3} \qquad \dim = 40$ 

5 6

 $\boxed{1}$   $\dim = 40$ 

 2

 4

5

 $\dim=40$ 

 $\begin{array}{c|c}
 & 1 \\
\hline
 & 2 & 3 \\
\hline
\end{array}$ 

5 6

 $\dim = 40$ 

 $\begin{array}{c|c}
2\\
4\\
\hline
5 & 6
\end{array}$ 

 $\boxed{1 \mid 2} \quad \dim = 40$ 

 $\boxed{1 \quad 2} \qquad \boxed{3} \qquad \dim = 40$ 

4 5

 $\dim = 40$ 

 $\begin{array}{c|cccc}
 & 1 & 2 \\
\hline
 & 3 & \\
\hline
 & 4 & 5 & 6
\end{array}$ 

 $\begin{array}{c|c}
\hline
1 \\
\hline
3 & 4
\end{array}
\qquad \text{dim} = 40$   $\hline
6 \\
\hline$ 

6

 $\dim = 40$ 

 $\begin{array}{c|c}
1 & 2 \\
\hline
3 & 4 \\
\hline
6 & 5
\end{array}$ 

 $\begin{array}{|c|c|}
\hline
2 & \dim = 40
\end{array}$ 

 4

 6

 $\boxed{1} \qquad \dim = 40$ 

 3
 4

 5
 6

 $\boxed{1} \qquad \dim = 40$ 

 2
 3

 4

 5

 6

 $\frac{\boxed{1}}{2 \ 3} \qquad \qquad \dim = 40$ 

 4

 6

 $\begin{array}{c|cc}
1 & 2 & 3 \\
\hline
4 & 5 & 5
\end{array}$ dim = 40

 $\dim = 40$   $\boxed{1}$   $\boxed{2}$   $\boxed{3}$   $\boxed{4}$   $\boxed{6}$   $\boxed{1}$   $\dim = 40$ 

 2
 3

 4
 5

 $\begin{array}{c|c}
\hline
1\\
\hline
3\\
\hline
5
\end{array}
\qquad \text{dim} = 40$ 

 $\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & 
\end{array}$   $\begin{array}{c|c}
\hline
4 & 5 & 
\end{array}$ 

 $\begin{array}{c}
\boxed{1} \\
\boxed{2}
\end{array}$ 

6

	1				
•		2		3	
	4		5	6	

$$\dim = 40$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 & 3 \\
\hline
4 \\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
5 & 6 \\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & \\
\hline
4 & 5 & 6
\end{array}$$

$$\dim = 40$$

$$\dim = 40$$

$$\begin{array}{c|cccc}
2 & 3 & 4 \\
\hline
5 & 6 & \\
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & & \\
\hline
2 & \\
\hline
3 & 4
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & 2 & 3
\end{array}$$

$$\begin{array}{c|c}
\hline
6 & \\
\hline
6 & \\
\hline
6 & \\
\hline
 \end{array}$$

$$\begin{array}{c|cccc}
\hline
1 & & \hline
2 & \dim = 40 \\
\hline
4 & 5 & 6 & \\
\end{array}$$

$$\dim = 40$$

$$\boxed{3} \boxed{4}$$

$$\dim = 40$$

$$\boxed{1} \qquad \boxed{2} \qquad \dim = 40$$

 $\begin{array}{c|c}
\hline
1\\
\hline
3\\
\hline
4\\
\hline
5\\
\hline
6
\end{array}$ dim = 40

 $\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & 4
\end{array}$ 

 $\dim = 40$ 

 3
 4

 5
 6

 $\boxed{1} \qquad \boxed{2} \qquad \dim = 40$ 

 $\begin{bmatrix} 4 & 5 \end{bmatrix} = \begin{bmatrix} 6 \end{bmatrix}$ 

 $\dim = 40$ 

2 3

3

 $\boxed{\frac{1}{3}} \qquad \boxed{2} \qquad \dim = 40$ 

5 6

 $\dim = 40$ 

 1

 2

 3

 4

5 6

 $\begin{array}{c|c}
 & 1 \\
\hline
 & 3 & 4 & 5
\end{array}$   $\begin{array}{c|c}
 & \dim = 40
\end{array}$ 

6

 $\begin{array}{c|c}
\hline
2 & \hline
3 & \hline
4 & \\
\hline
\end{array}$   $\dim = 40$ 

5

 $\begin{array}{c|c}
\hline
1 & \overline{2}
\end{array}$ 

3 4 5

 $\begin{array}{c|cc}
\hline
1 & 2 & 3 \\
\hline
4 & 5
\end{array}$   $\dim = 40$ 

6

 $\begin{array}{c|cccc}
1 & 2 & & 3 \\
\hline
 & 4 & 5 \\
\hline
 & 6 & & & \\
\end{array}$   $\dim = 40$ 

 $\begin{array}{c|c}
\hline
1 \\
2 \\
\hline
5 \\
\hline
\end{array}$   $\begin{array}{c|c}
\hline
3 & 4 \\
\hline
6 \\
\end{array}$   $\begin{array}{c|c}
\dim = 40 \\
\end{array}$ 

 $\boxed{1}$   $\boxed{2}$   $\dim = 40$ 

 3
 4

 5
 6

3

 $\dim = 40$ 

 $\begin{array}{c|c}
\hline
1 & \dim = 40 \\
\hline
2 & 3 \\
4 & \\
\end{array}$ 

 $\dim = 40$   $\boxed{3} \boxed{4}$ 

5 6

5

 $\boxed{1}$   $\dim = 40$ 

5 6

 $\begin{array}{c|cccc}
 & & & & & & & & & & & \\
\hline
 & & & & & & & & & & \\
\hline
 & & & & & & & & & \\
\hline
 & & & & & & & & \\
\hline
 & & & & & & & & \\
\hline
 & & & & & & & & \\
\hline
 & & & & & & & \\
\hline
 & & & & & & & \\
\hline
 & & & & \\
\hline
 & & & & \\
\hline
 & & & & &$ 

6

 $\dim = 40$ 

 3

 4

 5

 6

 $\boxed{1} \qquad \boxed{2} \qquad \dim = 42$ 

 3
 4

 5
 6

 $\boxed{1 \quad 2}$   $\dim = 42$ 

4

5 6

 $\boxed{1 \mid 2} \qquad \dim = 42$ 

 3
 4

 5
 6

 $\dim = 45$ 

2

 3
 4
 5

 6

 $\begin{array}{c|c} & 1 \\ \hline 2 & 3 & 4 \end{array} \qquad \text{dim} = 45$ 

 $\begin{array}{c|c}
\hline
1 & \hline
2 \\
\hline
3 \\
\hline
4
\end{array}$   $\dim = 45$ 

5

6

 $\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 \\
\hline
4 \\
\hline
5 \\
\end{array}$ 

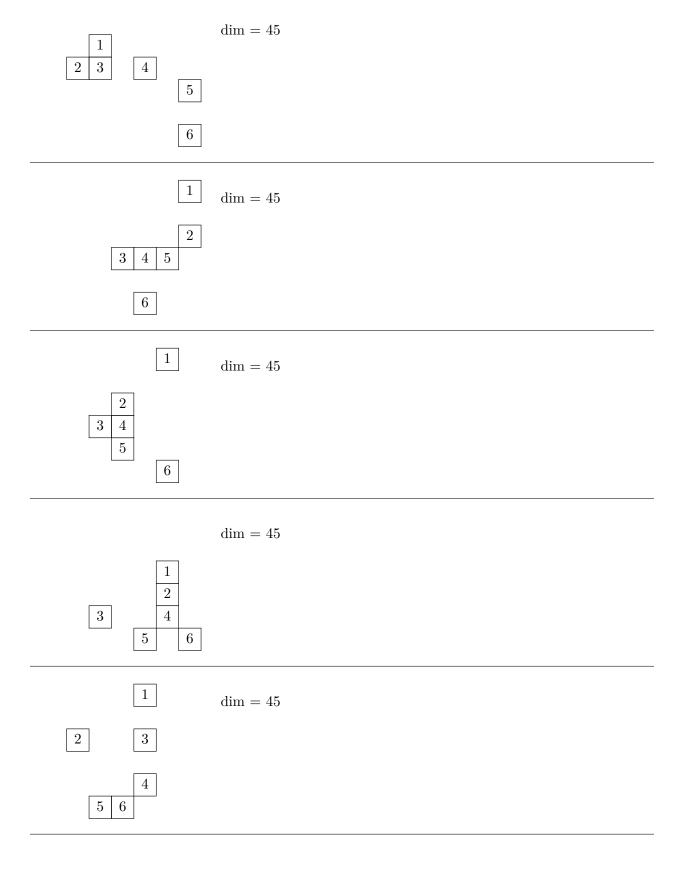
 $\begin{array}{c|c}
\hline
1 \\
\hline
3 \\
\hline
4
\end{array}$   $\begin{array}{c|c}
\hline
5 \\
\hline
6
\end{array}$ 

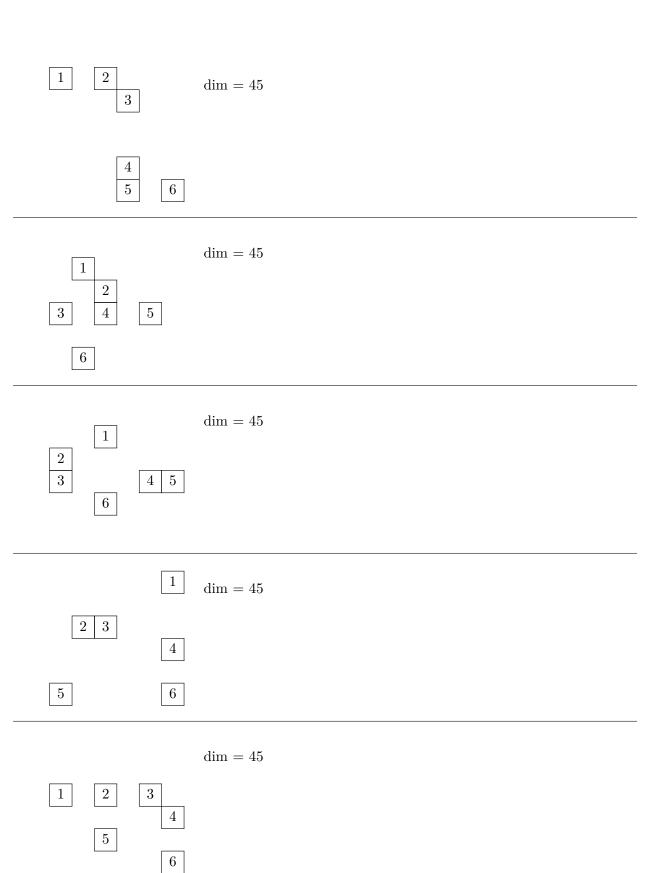
 $\begin{array}{c|c}
1 & \dim = 45 \\
\hline
2 & \\
\hline
3 & 4
\end{array}$ 

 $\begin{array}{c|cc}
1 & 2 & 3 \\
\hline
 & 4 & 
\end{array}$   $\dim = 45$ 

 6

2 3





 $\boxed{1} \qquad \boxed{2} \qquad \dim = 45$ 

4 5 6

 $\boxed{1} \qquad \dim = 45$ 

 2
 3
 4

 6
 5

 $\boxed{1}$  dim = 45

2 3 4

 $\begin{array}{c|c}
\hline
1 & 2 \\
\hline
4
\end{array}$   $\dim = 45$ 

6

 $\boxed{1} \qquad \dim = 45$ 

 4
 5

 6

 $\boxed{1} \qquad \boxed{2} \qquad \dim = 45$ 

4 5 6

 $\boxed{1} \quad \dim = 45$ 

 4
 5

 6

 $\boxed{1 \quad \boxed{2}} \qquad \dim = 45$ 

 3

 5

 6

 $\boxed{1} \quad \boxed{2 \quad 3} \quad \dim = 45$ 

 $\frac{4}{5}$ 

6

 $\dim = 45$ 

1 2 3

$$\begin{array}{c|c}
 & \dim = 45 \\
\hline
2 & 3 & 4
\end{array}$$

$$\boxed{1 \quad 2} \quad \dim = 45$$

$$\begin{bmatrix} 3 \\ 4 \end{bmatrix}$$

$$\boxed{1}$$
  $\dim = 45$ 

$$\begin{bmatrix} 2 \\ 3 \\ 4 \end{bmatrix}$$

$$\frac{1}{2} \qquad \dim = 45$$

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & 4 & 5
\end{array}$$
dim = 45

6

$$\boxed{1} \qquad \qquad \dim = 45$$

4 5 6

$$\dim = 45$$

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & 4
\end{array}$$

$$\begin{array}{c|c}
\hline
6
\end{array}$$

$$\dim = 47$$

 $\begin{array}{c|c}
\hline
1 \\
\hline
2 & 3
\end{array}
\qquad \begin{array}{c}
\hline
4 \\
\hline
5
\end{array}$ 

 $\begin{array}{c|c}
1 & 2 \\
\hline
4 \\
\hline
5
\end{array}$   $\dim = 47$ 

6

 $\boxed{1} \qquad \boxed{2} \qquad \qquad \dim = 47$ 

3

5

 $\boxed{1 \quad 2} \qquad \qquad \dim = 47$ 

 3
 4

 5
 6

1 dim = 47

 $\begin{bmatrix} 2 \\ 4 \end{bmatrix}$ 

 $\dim=47$ 

 3
 1
 2

 4
 5
 6

 $\boxed{1} \qquad \boxed{2} \qquad \dim = 47$ 

5 6

 $\begin{array}{c|cc}
 & \dim = 47 \\
\hline
 & 4
\end{array}$ 

 5

 6

 $\boxed{1 \mid 2}$   $\dim = 47$ 

3 4

5 6

 $\dim = 54$ 

2 3

 $\begin{array}{c|c}
\hline
1 & 2 & 3
\end{array}$   $\begin{array}{c|c}
\hline
4
\end{array}$ 

5

 $\begin{array}{c|c}
 & \dim = 54 \\
\hline
2 & 3 & 4 \\
\hline
5 & 6 & \\
\end{array}$ 

 $\begin{array}{c|c} & \dim = 54 \\ \hline 1 & 2 & 3 \\ \hline 4 & \end{array}$ 

5

 $\begin{array}{|c|c|c|c|}\hline 1 & 2 & \hline & 3 \\ \hline \end{array} \quad \text{dim} = 54$ 

 4

 6

 2
 3

 5
 4

2	$\dim = 54$
3     4       5       6	
1 2 3	$\dim = 54$
4 5 6	
$\begin{bmatrix} 2 & 3 \\ 4 \end{bmatrix}$	$\dim = 54$
5       6	
3 4 5	$\dim = 54$
6	
$\begin{array}{ c c c c c }\hline 2 & 3 \\ \hline \end{array}$	$\dim = 54$

6

 $\begin{array}{c|c}
\hline
1 & \boxed{2} \\
\hline
3 & \dim = 54
\end{array}$ 

 $\begin{array}{c|c}
\text{dim} = 54 \\
\hline
2 & 3
\end{array}$ 

 4
 5
 6

 $\boxed{1} \qquad \boxed{2} \qquad \dim = 54$ 

 3

 4
 5
 6

 $\begin{array}{c|cccc}
\hline
1 & 2 & 3 \\
\hline
4 & 5 & 
\end{array}$   $\dim = 54$ 

6

 $\begin{array}{c|c}
 & 1 \\
\hline
2 \\
3 \\
\end{array}$   $\begin{array}{c|c}
 & \dim = 54 \\
\end{array}$ 

 $\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
3 \\
4
\end{array}$   $\hline
6$ 

 $\dim = 54$ 

 2
 3

 4
 5

 6

 $\boxed{1} \qquad \boxed{2 \mid 3} \quad \dim = 54$ 

4

5 6

 $\boxed{1 \quad 2} \qquad \dim = 54$ 

4 5 6

 $\begin{array}{c|cccc}
1 & 2 & 3 \\
\hline
\end{array} \qquad dim = 54$ 

 4
 5

 6

4 5

 $\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
\end{array}$   $\dim = 54$ 

 4
 5

 $\boxed{1} \qquad \boxed{2} \qquad \qquad \dim = 54$ 

 3
 4
 5

 $\begin{array}{c|c}
1 & 2 \\
\hline
 & 4
\end{array}$   $\dim = 54$ 

5 6

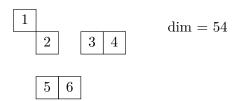
 $\boxed{1 \ 2} \qquad \boxed{3} \qquad \dim = 54$ 

5 6

 $\dim = 54$ 

<u>1</u> 5

6



 $\dim = 54$ 



4 5 6

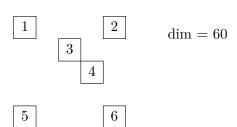
$$\begin{array}{c|c}
\hline
1 & \hline
2 \\
\hline
3 \\
\hline
4 \\
\hline
\end{array}$$
dim = 54

Г

$$\boxed{1} \qquad \boxed{2 \mid 3} \qquad \dim = 54$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
4 \\
\hline
5
\end{array}$$

$$\dim = 60$$

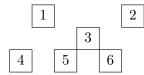


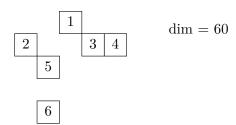
$$\boxed{1} \quad \dim = 60$$

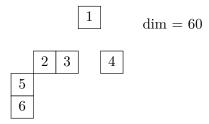
$$\boxed{1}$$
  $\dim = 60$ 

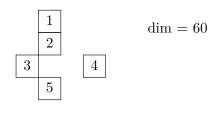
$$\begin{array}{c}
\boxed{1} \\
\boxed{2} \\
\boxed{3}
\end{array}$$

$$\dim = 60$$



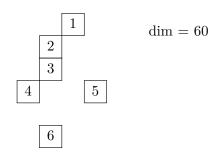


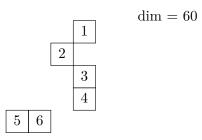




 $\frac{1}{2} \qquad \dim = 60$ 

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & 6
\end{array}$$

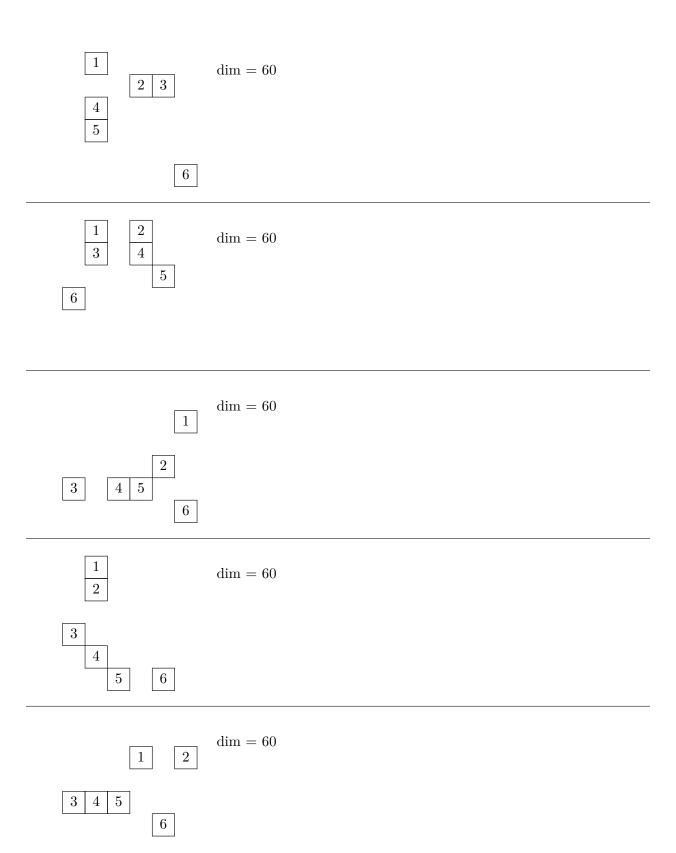


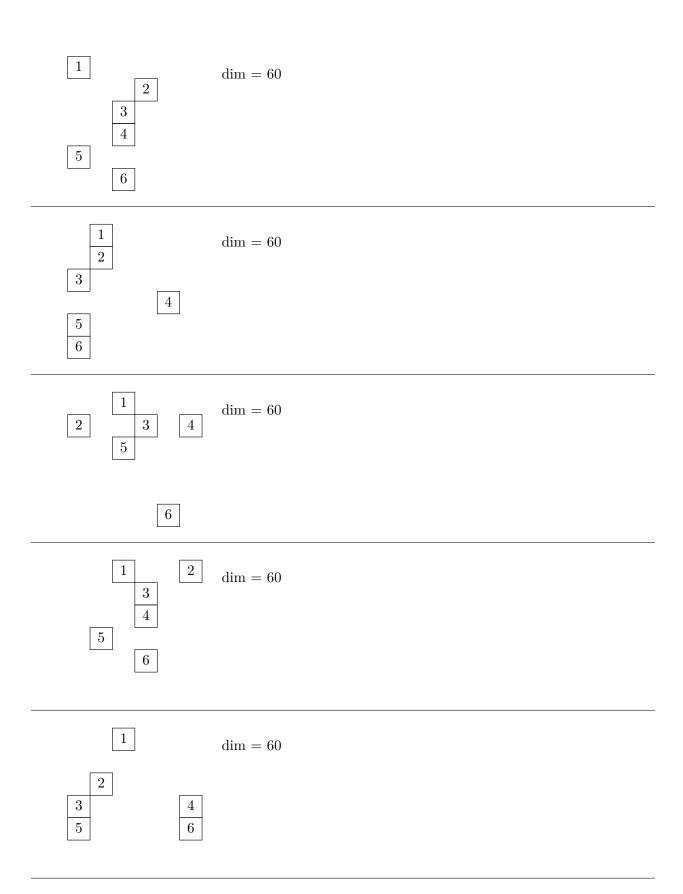


$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 \\
\hline
4 \\
\hline
5 \\
\hline
6
\end{array}$$

$$\boxed{1 \ 2 \ 3} \qquad \dim = 60$$

$$\begin{array}{c|c}
\hline
1 & \dim = 60 \\
\hline
3 & \\
\hline
6 & \\
\end{array}$$





 $\dim = 60$ 1  $\dim=60$ 3 4 5  $\dim=60$ 2 1  $\dim=60$ 6  $\dim = 60$   $\begin{array}{c|c}
1 & 2 \\
\hline
3 & 4
\end{array}$   $\begin{array}{c|c}
6
\end{array}$ 

 $\boxed{1} \quad \dim = 60$ 

 2

 4
 5
 6

 $\dim=61$ 

 1
 2

 3
 4

 5
 6

 $\boxed{1 \\ \boxed{3}} \qquad \boxed{2}$   $\dim = 61$ 

5 6

 $\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & 4 \\
\hline
5 & \\
\end{array}$ 

 $\boxed{1 \quad 2}$  dim = 61

3

 4
 5

 6

 $\begin{array}{c|c}
\hline
1 \\
\hline
3 & 4
\end{array}$   $\dim = 61$ 

5 6

 $\boxed{1}$   $\dim = 61$ 

 $\begin{array}{c|c}
2 & & 3 \\
\hline
4 & 5 \\
\hline
6 & & \\
\end{array}$ 

5 6

 $\begin{array}{c|c}
 & 1 \\
\hline
2 & 3
\end{array}$   $\dim = 61$ 

4 5

 $\boxed{\frac{1}{2}}$  dim = 61

 3
 4

 5
 6

 $\boxed{1} \qquad \boxed{2} \qquad \dim = 61$ 

3 4

[5] [6]

 $\frac{1}{2} \quad \text{dim} = 61$ 

3 4

5 6

 $\boxed{1 \quad 2} \qquad \qquad \dim = 61$ 

3 4

5 6

 $\boxed{\frac{1}{4}} \qquad \boxed{2} \qquad \dim = 61$ 

 $\dim = 66$   $\boxed{2}$   $\boxed{3}$   $\boxed{5}$   $\boxed{6}$ 

6

 $\begin{array}{c}
\text{dim} = 66 \\
\hline
2
\end{array}$ 

$$\begin{array}{c|c}
1 & 2 & 3 \\
\hline
 & 4 & \\
\hline
 & 5 & \\
\hline
 & 6 & \\
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & \dim = 66 \\
\hline
2 & & \\
\hline
3 & 4 & & \\
\hline
6 & & \\
\end{array}$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
3 \\
\hline
4 \\
\hline
6
\end{array}$$

$$\dim = 66$$

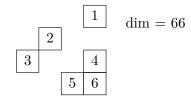
$$\dim = 66$$

$$\boxed{2}$$

$$\boxed{5 \mid 6}$$

$$\begin{array}{c|c}
 & \dim = 66 \\
\hline
 & 3 \\
\hline
 & 4 & 5 & 6
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & \dim = 66 \\
\hline
4 & 5 \\
\hline
6 & \\
\end{array}$$



$$\dim = 66$$

$$\boxed{1} \quad \dim = 66$$

$$\begin{array}{c|c}
\hline
2 \\
\hline
3 & 4
\end{array}$$

$$\begin{array}{c|c}
\hline
6
\end{array}$$

 $\begin{array}{c|c}
\hline
1 \\
\hline
2 & 3
\end{array}$   $\begin{array}{c|c}
\hline
4 \\
\hline
5
\end{array}$ 

 $\begin{array}{c|c}
1 & 2 & 3 \\
\hline
4 & \\
\hline
5 & \\
\end{array}$ dim = 66

6

 $\boxed{1 \quad 2 \quad 3}$   $\dim = 66$ 

5 6

 $\dim = 66$ 

3 4 5

 $\dim = 66$ 

5

 $1 \mid 2$ 

1		2	dim :	= 66
	3			

5 6

$$\boxed{1} \quad \dim = 66$$

2

 3
 4

 5
 6

 $\dim = 66$ 

$$\begin{array}{c|c}
\hline
1 & \dim = 66 \\
\hline
2 & 3 & \\
\hline
4 & & 
\end{array}$$

5

5 6

 $\dim = 66$ 

1



1 2 3

 $\dim=66$ 

5

6

\_

 $\dim=66$ 

3

 $\lfloor 4 \rfloor$ 

5 6

1

 $\dim = 66$ 

2 3

 $4 \mid$ 

5 6

1

2

 $\dim = 66$ 

3

4

$$\begin{array}{|c|c|c|}
\hline
1 & & \dim = 66 \\
\hline
2 & 3 & 4 & \\
\hline
5 & & \\
\hline
\end{array}$$

 $\dim = 66$ 

1 2 3

4

5

6

1

 $\dim = 66$ 

6 4 5

1

 $\dim = 66$ 

 3
 4
 5

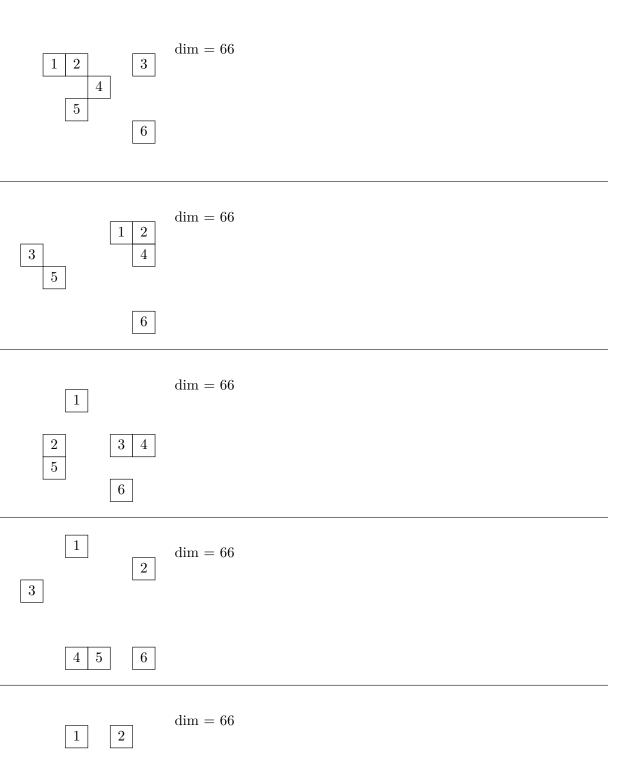
6

1 2 3

 $\dim = 66$ 

4

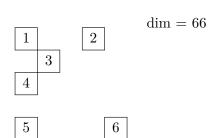
5



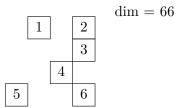
$$\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
3 & 4
\end{array}$$

$$\begin{array}{c|c}
\hline
6 \\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
6 \\
\hline$$



$$\boxed{1}$$
  $\dim = 66$ 



$$\dim = 66$$

$$\begin{array}{c|c}
1 \\
\hline
3 \\
4 \\
\hline
5 \\
6
\end{array}$$

 $\boxed{1 \quad 2} \qquad \qquad \dim = 66$ 

5 6 3

 $\boxed{1 \quad 2} \qquad \boxed{3} \qquad \dim = 66$ 

4

[5] [6]

 $\begin{array}{c|c}
1 & 2 \\
\hline
3 & 4 \\
\hline
5
\end{array}$ 

6

 $\begin{array}{c|c}
1 & 2 \\
\hline
 & 3 \\
\hline
 & 4
\end{array}$   $\dim = 66$ 

5 6

 $\boxed{1} \qquad \dim = 66$ 

 3

 5

 6

 $\begin{array}{c|c}
\hline
2 & 3 \\
\hline
5
\end{array}$   $\begin{array}{c|c}
\hline
6
\end{array}$ 

6

 $\begin{array}{c|cc}
 & 1 & 2 & 3 \\
\hline
 & 4 & \\
\hline
 & 5 & \\
\end{array}$ dim = 66

6

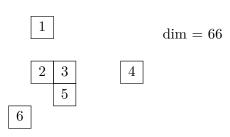
 $\frac{1}{2}$  dim = 66

 3
 4

 5
 6

 $\boxed{1} \qquad \boxed{2 \quad 3} \qquad \qquad \dim = 66$ 

4



$$\begin{array}{c|c}
\hline
1 & \dim = 66 \\
\hline
3 & 4 & 5 \\
\hline
6 & \\
\end{array}$$

$$\dim = 66$$

$$\begin{array}{c|c}
1 & & 2 \\
& & 3 \\
\hline
4 & 5 & 6 \\
\end{array}$$

$$\begin{array}{c|c}
1 & 2 & 3 \\
\hline
 & 4
\end{array}$$

$$\dim = 66$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
4 \\
\hline
6
\end{array}$$

$$\begin{array}{c|c}
\hline
6
\end{array}$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 & 3 \\
\hline
4
\end{array}$$

$$\dim = 66$$

$$\dim = 66$$

$$\dim = 66$$

$$\begin{array}{c|c}
2 & & 3 \\
\hline
4 & 5 \\
\hline
6 & \\
\end{array}$$

$$\dim = 75$$

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & 4
\end{array}$$

$$\frac{1}{2 \cdot 3} \qquad \dim = 75$$

 $\begin{array}{c|c}
\hline
1 & \hline
3 & 4 \\
\hline
& 5 \\
\hline
& 6 \\
\end{array}$ 

 $\boxed{1 \quad 2} \qquad \qquad \dim = 75$ 

5 6

 $\boxed{1}$   $\boxed{2 \mid 3}$   $\dim = 75$ 

5 6

 $\frac{1}{2} \quad \text{dim} = 75$ 

5 6

 $\dim = 75$ 

 $\frac{1}{3}$ 

 $\dim = 75$ 

3 3 4 5 6

 $\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
\end{array} \qquad \qquad \dim = 75$ 

 $\begin{bmatrix} 4 \\ 5 \end{bmatrix}$ 

 $\boxed{1} \qquad \dim = 75$ 

2 3 4 5

 $\frac{1}{1} \qquad \qquad \dim = 75$ 

 $\frac{1}{2} \quad \dim = 75$ 

 $\frac{3}{4}$ 

 $\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & 4 \\
\hline
5 \\
\hline
6
\end{array}$ 

 $\begin{array}{c|c}
1 & \dim = 75 \\
\hline
2 & 3
\end{array}$ 

5 6

 $\boxed{1 \quad 2} \qquad \qquad \dim = 75$ 

4

 5

 6

 2
 3

 4
 5

 $\begin{array}{c|c}
\hline
1 & & \\
\hline
2 & & \\
\end{array}$ 

 $\begin{array}{c|c} \hline 3 \\ \hline \hline & 5 & 6 \\ \hline \end{array}$ 

 $\boxed{1 \quad 2} \quad \dim = 75$ 

3

 $\begin{bmatrix} 4 \end{bmatrix}$   $\begin{bmatrix} 5 & 6 \end{bmatrix}$ 

 $\dim = 75$ 

3

4

5 6

 $\boxed{1} \qquad \boxed{2} \qquad \dim = 75$ 

 $\dim = 75$ 

1 2

 3
 4

 5
 6

 $\begin{array}{c|c}
1 & 2 \\
\hline
3 & \\
\end{array}$   $\dim = 75$ 

4 5

 $\begin{array}{c|c}
1 & 2 \\
\hline
3 & \\
\end{array}$   $\dim = 75$ 

6

5

 $\begin{array}{c|c}
\hline
1 & \dim = 75 \\
\hline
4 & \\
\end{array}$ 

5 6

 $\boxed{1 \quad 2} \qquad \qquad \dim = 75$ 

3 4

5 6

 $\dim = 75$ 

 $\boxed{1} \qquad \boxed{2} \qquad \dim = 75$ 

6

 3
 4

 5
 6

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
 & 3 \\
\hline
 & 4
\end{array}$$

$$\begin{array}{c|c}
\hline
5 & 6
\end{array}$$

$$\boxed{1 \quad 2}$$
 
$$\dim = 75$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
3 \\
\hline
\end{array}
\qquad \begin{array}{c|c}
\hline
2 \\
\hline
4 \\
\hline
\end{array}
\qquad \text{dim} = 75$$

$$\boxed{1} \qquad \boxed{2} \qquad \dim = 75$$

$$\boxed{1 \qquad \boxed{2} } \quad \dim = 75$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 & 3
\end{array}$$

$$\begin{array}{c|c}
\hline
4 & 5 \\
\hline
6 & \\
\end{array}$$

$$\boxed{1 \quad 2} \qquad \qquad \dim = 75$$



$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 \\
\hline
4 \\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
5 \\
\hline
\end{array}$$

$$\begin{array}{c|c}
 & \text{dim} = 75 \\
\hline
2 & & & \\
\hline
3 & & & \\
\hline
5 & & 6
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & \hline
3 \\
\hline
4 & \\
\hline
5 & \hline
6 & \\
\end{array}$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 & 3
\end{array}$$

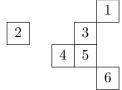
$$\begin{array}{c|c}
\hline
4 & 5
\end{array}$$



$$\boxed{1 \quad 2} \qquad \qquad \dim = 75$$

$$\boxed{1} \qquad \boxed{2} \qquad \dim = 75$$

$$\dim = 75$$





$$\dim = 75$$

$$\dim = 75$$

$$\boxed{1 \quad 2}$$

$$\begin{array}{c|c}
 & 1 & 2 \\
\hline
 & 4 \\
\hline
 & 5 \\
\hline
 & 6 \\
\end{array}$$

$$\dim = 75$$

$$\boxed{1 \quad \boxed{2} \quad \dim = 75}$$

 $\boxed{1} \qquad \boxed{2} \qquad \dim = 80$   $\boxed{3} \qquad \boxed{4}$ 

6

 $\begin{array}{c|c}
 & \dim = 80 \\
\hline
 & 3 & 4 \\
\hline
 & 5 & 
\end{array}$ 

4 5 6

6

 $\boxed{1} \quad \dim = 80$   $\boxed{2 \mid 3}$ 

 $\begin{array}{c|c}
\hline
1 & \boxed{2} \\
\hline
3 & \\
\hline
4 & \\
\hline
5 & \boxed{6}
\end{array}$ 

 $\boxed{1} \qquad \qquad \dim = 80$ 

5 6

 $\begin{array}{c|c}
 & 1 \\
\hline
2 \\
\hline
4
\end{array}$   $\dim = 80$ 

5

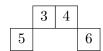
 $\boxed{1}$  dim = 80

2 3

5 6

 $\frac{1}{3} = 80$ 

4 5



3 4

5 6

 $\dim = 80$ 

 $\dim = 80$ 

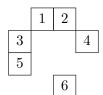
1

2 3

 4

 5
 6

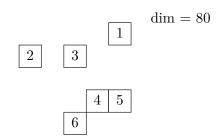
 $\dim = 80$ 



 $\boxed{3} \qquad \boxed{4} \qquad \boxed{2} \qquad \dim = 80$ 

$$\begin{array}{c|c}
\hline
1 \\
\hline
3 \\
\hline
4
\end{array}$$

$$\begin{array}{c}
\hline
6 \\
\hline
\end{array}$$



$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & 4 \\
\hline
5 \\
\hline
6
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
& 3 \\
\hline
& 4 & 5 \\
\hline
& 6 \\
\end{array}$$

 $\dim = 80$ 

 $\dim = 80$ 

5 6

 $\dim=80$ 

 $\dim = 80$ 

3 4

> > $\dim = 80$

 $1 \mid 2$ 

4 5

 $\dim = 90$ 

$$\begin{array}{c|c}
\hline
1 & \dim = 90 \\
\hline
3 & 4 & \\
\hline
6 & \\
\end{array}$$

$$\dim = 90$$

$$\boxed{3}$$

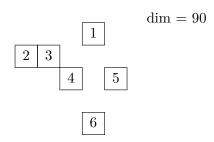
$$\boxed{4}$$

$$\boxed{5}$$

$$\begin{array}{c|c}
\hline
1 & \dim = 90 \\
\hline
2 & \\
\hline
3 & 4 & 5 \\
\hline
6 & \\
\end{array}$$

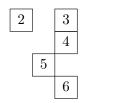
$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & \\
\hline
5 & \\
\hline
6 & \\
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & & \\
\hline
2 & \\
\hline
4 & 5 & 6
\end{array}$$

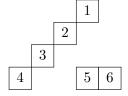


$$\begin{array}{c|c}
1 & 2 \\
\hline
 & 3 \\
\hline
 & 4
\end{array}$$
 dim = 90

$$\boxed{1} \quad \dim = 90$$



$$\dim = 90$$

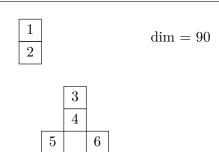


$$\begin{array}{c|c}
\hline
1 \\
4
\end{array}
\qquad \qquad \dim = 90$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 & 3 & 4
\end{array}$$

$$\hline
5$$

$$\begin{array}{c|c}
\hline
1 & \dim = 90 \\
\hline
3 & 4 \\
\hline
5 & \\
\hline
\end{array}$$



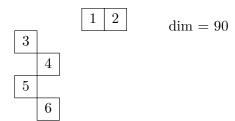
$$\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
4 \\
\hline
6
\end{array}$$

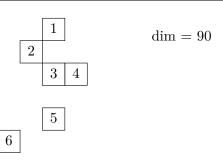
$$\begin{array}{c|c}
\hline
1 \\
\hline
6 \\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
3 \\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
1\\
\hline
2\\
\hline
3\\
\hline
4
\end{array}$$

$$\begin{array}{c|c}
\hline
5\\
\hline
\end{array}$$



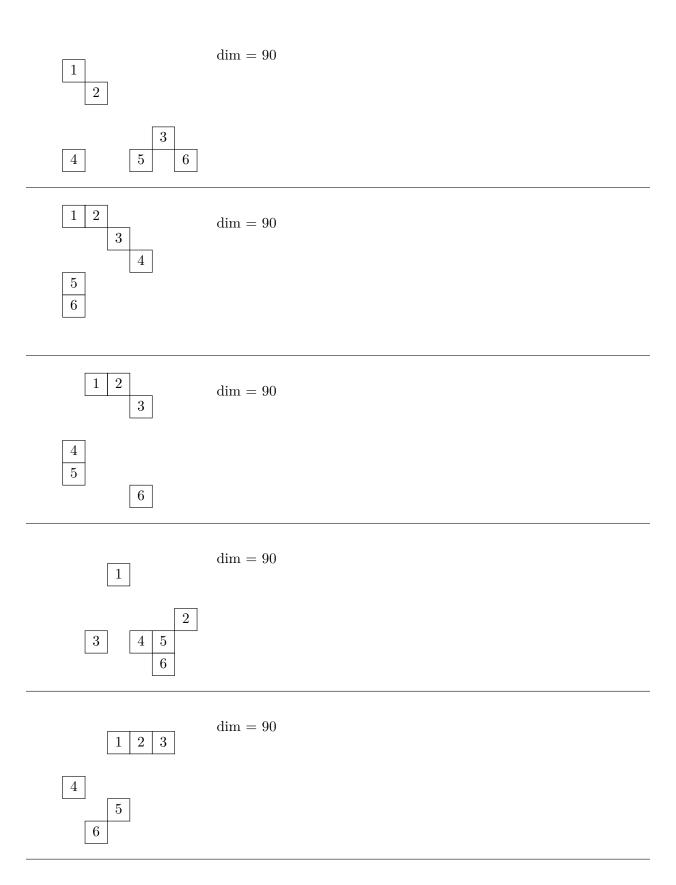


$$\dim=90$$

$$\begin{array}{c|c}
\hline
2\\
\hline
3\\
\hline
6\\
\end{array}$$

$$\boxed{1} \qquad \boxed{2} \qquad \boxed{3} \qquad \dim = 90$$

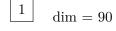
$$\frac{1}{2} \qquad \qquad \dim = 90$$

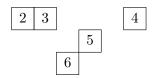


$$\begin{array}{c|c}
\hline
1 \\
\hline
2
\end{array}$$

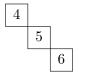
$$\hline
4$$

$$\hline
5 \boxed{6}$$



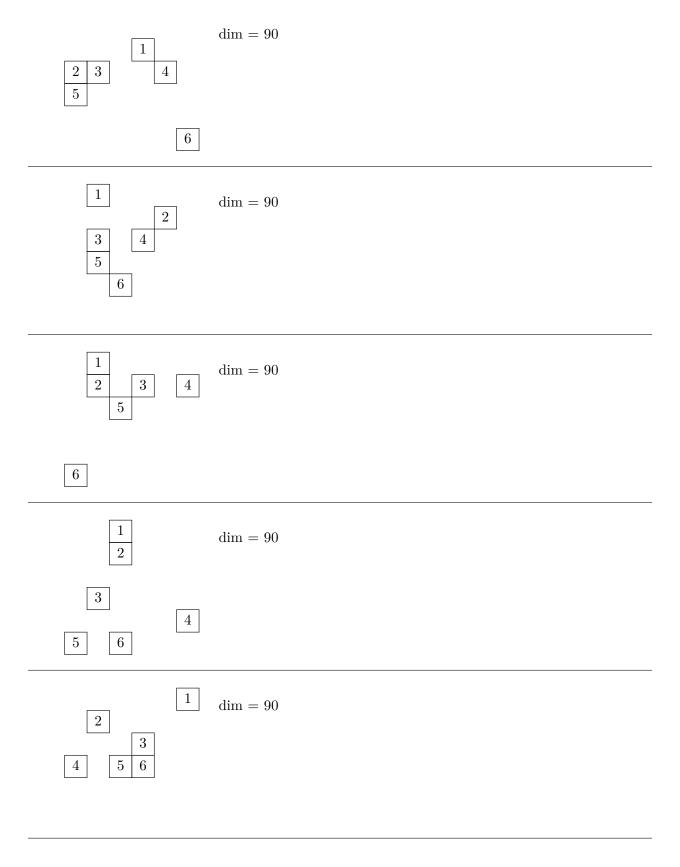


$$\boxed{1} \qquad \boxed{2 \quad 3} \qquad \dim = 90$$



$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & \\
\hline
4 \\
\hline
5 & \\
\end{array}$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
3 \\
\hline
5 \\
\hline
6
\end{array}$$
dim = 90



$$\begin{array}{c|c}
\hline
2 & \hline
& 3 & 4
\end{array}$$
dim = 90

$$\boxed{1} \qquad \boxed{2} \qquad \qquad \dim = 90$$

5 6

$$\begin{array}{c|c}
\hline
1 & & \dim = 90 \\
\hline
2 & & \\
\hline
3 & & 4 \\
\hline
5 & & \\
\hline
6 & & \\
\end{array}$$

$$\dim = 90$$

3 5 6

$$\begin{array}{c|c}
\hline
1 & \hline
2 & \dim = 90 \\
\hline
3 & \hline
4 & \hline
5 & \\
\end{array}$$

 $\begin{array}{c|c}
\hline
1 & \dim = 90 \\
\hline
3 & \hline
4 & \\
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5 & 6 & \\
\end{array}$ 

 $\begin{array}{c}
\boxed{1} \\
\boxed{2} \\
\boxed{3} \\
\boxed{5} \boxed{6}
\end{array}$ 

 $\begin{array}{c|c}
\hline
1 & & \\
\hline
2 & & \\
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3 & & \\
\end{array}$ 

 4
 5

 $\dim = 90$   $\boxed{2}$   $\boxed{3}$   $\boxed{5}$ 

 $\dim = 90$   $\boxed{2}$   $\boxed{3} \boxed{4}$   $\boxed{5}$ 

 $\boxed{1} \qquad \boxed{2} \qquad \boxed{3} \qquad \dim = 90$ 

<u>4</u> 

 $\dim = 90$ 

 3

 4

 $\begin{array}{c|c}
\hline
2 & \hline
3 & \\
\hline
4 & \\
\end{array}$   $\dim = 90$ 

 $\dim=90$ 

5 6

 $\boxed{1} \quad \dim = 90$ 

3 4 5

6

 $\begin{array}{c|c}
\hline
2 \\
\hline
4
\end{array}$   $\dim = 96$ 

5 6

 5
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 $\dim = 96$ 

3 4 5

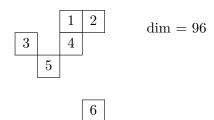
6

$$\boxed{\frac{1}{3}} \qquad \boxed{2} \qquad \qquad \dim = 96$$

$$\boxed{\frac{1}{2}} \qquad \qquad \dim = 96$$

$$\boxed{1} \qquad \dim = 96$$

$$\boxed{2} \qquad \boxed{3} \qquad \boxed{1} \qquad \dim = 96$$



$$\begin{array}{c|c}
\hline
1 \\
\hline
2
\end{array}$$

$$\dim = 96$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2
\end{array}$$

$$\begin{array}{c|c}
\hline
4 \\
\hline
5
\end{array}$$

$$\dim = 96$$

$$\boxed{1 \quad 2} \quad \dim = 96$$

 $\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & \\
\hline
4 & 5
\end{array}$   $\begin{array}{c|c}
\hline
6
\end{array}$ 

 $\dim = 96$ 

5 6

 $\boxed{1}$   $\dim = 96$ 

 2

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 4

 5
 6

3 4

5

 $\begin{array}{c|c}
\hline
1 \\
\hline
2 & 3 \\
\hline
4 & 5
\end{array}$   $\dim = 96$ 

 $\boxed{1} \qquad \boxed{2} \qquad \dim = 96$ 

 3

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 $\boxed{1}$  dim = 96

3 4

 $\boxed{\begin{array}{c|c} 1 & 2 \\ \hline & 3 \end{array}} \quad \dim = 96$ 

 4
 5

 6

 $\boxed{1 \quad 2} \qquad \qquad \dim = 96$ 

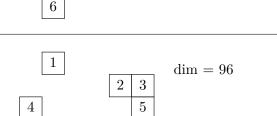
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5 6

 $\boxed{1} \qquad \boxed{2} \qquad \qquad \dim = 96$ 

3 4 5

$$\begin{array}{c|cccc}
\hline
1 & & & & & \\
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2 & & & & \\
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1 & & & & \\
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2 & & & & \\
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4 & & & & \\
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7$$



 $\begin{array}{c|c}
\hline
1 & \hline
2 & \dim = 96 \\
\hline
3 & 4 & \\
\hline
5 & \\
\end{array}$ 

6

 $\begin{array}{c|c}
\hline
1 & & \hline
2 & \dim = 96 \\
\hline
& & 4 \\
\hline
& & 6 \\
\end{array}$ 

 $\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
4 \\
5
\end{array}$   $\dim = 96$ 

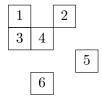
6

 $\dim = 96$ 

1 2 3 4 5 6

 $\begin{array}{c|c}
\hline
1 \\
\hline
2 & 3
\end{array}$   $\begin{array}{c|c}
\hline
4 & 5
\end{array}$ 

 $\dim = 96$ 



 $\dim=96$ 

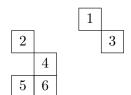
 $\dim=96$ 

2 3 

 $\dim = 96$ 2 3 

 $\dim = 96$ 

 $\dim=96$ 



 $\boxed{1} \qquad \boxed{2} \qquad \dim = 96$ 

3 4

6

 $\dim = 96$ 

$$\begin{array}{c|c}
1 \\
\hline
3 \\
\hline
5
\end{array}$$

$$\begin{array}{c|c}
4 \\
\hline
6
\end{array}$$

 $\boxed{\frac{1}{2} \quad \text{dim} = 96}$ 

5 6

 $\boxed{\frac{1}{3}} \qquad \boxed{2} \qquad \dim = 96$ 

 $\dim = 96$   $\boxed{1}$   $\boxed{3}$   $\boxed{4}$ 

5 6

 $\dim = 96$ 

 3

 5

 6

 $\dim = 96$ 

 2

 3
 4

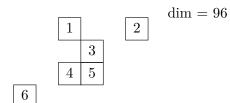
 5
 6

 $\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 \\
\hline
\end{array}$   $\dim = 96$ 

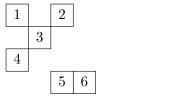
6

 $\boxed{1} \qquad \boxed{2} \qquad \dim = 96$ 

 5



$$\dim = 96$$

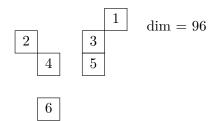


$$\begin{array}{c|c}
\hline
1 & \hline
2 & \\
\hline
3 & 4 \\
\hline
5 & \\
\end{array}$$

$$\dim = 96$$

$$\dim = 96$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
\end{array} \quad \text{dim} = 96$$



$$\begin{array}{c|c}
 & \dim = 96 \\
\hline
2 & & \\
\hline
3 & & 4
\end{array}$$

$$\dim=96$$

$$\boxed{1 \quad 2} \quad \dim = 96$$

$$\boxed{1 \quad 2} \qquad \qquad \dim = 96$$

 $\begin{array}{c|c}
 & \text{dim} = 96 \\
\hline
2 & 3 & \\
\hline
4 & 5 & \\
\hline
\end{array}$ 

 $\boxed{1} \qquad \boxed{2} \qquad \dim = 96$ 

 3

 4

 5
 6

 $\boxed{1 \qquad \qquad 2 \qquad \qquad \dim = 96}$ 

 4
 5

 6

 $\begin{array}{c|c}
\hline
1 \\
\hline
2 & 3
\end{array}$   $\dim = 96$ 

5 6

 $\dim = 96$ 

2 3

 $\begin{bmatrix} 5 \\ \end{bmatrix}$ 

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & 
\end{array}$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
3 \\
\hline
\end{array}$$

$$\begin{array}{c|c}
\dim = 96 \\
\hline
\end{array}$$

5 6

$$\boxed{\frac{1}{2} \quad \text{dim} = 96}$$

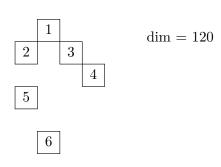
4

6

5 6

$$\begin{array}{c|c}
 & \text{dim} = 96 \\
\hline
 & 1 & 2 \\
\hline
 & 3 & 4 \\
\hline
\end{array}$$

 $\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
5 \\
\hline
6
\end{array}$   $\begin{array}{c|c}
\hline
4 \\
\hline
\end{array}$ 

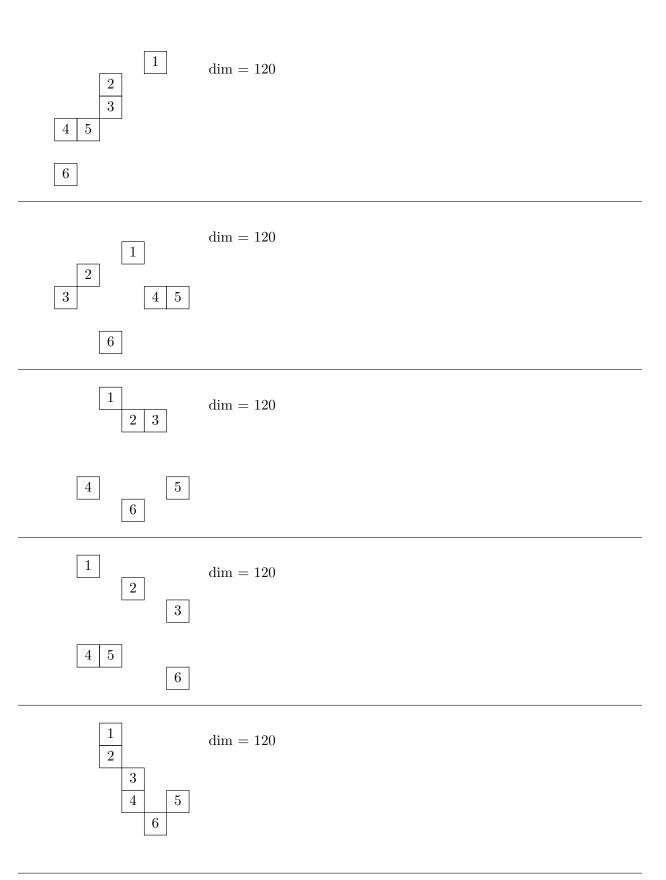


$$\begin{array}{c|c}
\hline
1 & \dim = 120 \\
\hline
3 & \\
4 & \\
\hline
6 & \\
\end{array}$$

$$\begin{array}{c}
\text{dim} = 120 \\
\hline
3 \\
\hline
5 \\
6
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & & & \\
\hline
2 & & \\
\hline
3 & & \\
\hline
4 & & \\
\hline
5 & & 6
\end{array}$$

$$\begin{array}{c|c}
1 & \dim = 120 \\
\hline
2 & & 5
\end{array}$$



$$\begin{array}{c|c}
\hline
1 & \hline
2 & \dim = 120 \\
\hline
4 & \boxed{5}
\end{array}$$

$$\dim = 120$$

$$\begin{array}{c|c}
\hline
1 & \dim = 120 \\
\hline
3 & \\
4 & \\
\hline
6 & \\
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & \hline
3 & \\
\hline
4 & \hline
\end{array}$$
dim = 120

$$\boxed{1} \qquad \dim = 120$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
3 \\
\hline
4
\end{array}$$

$$\dim = 120$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
4 \\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
5 & 6 \\
\hline
\end{array}$$

$$\dim = 120$$

$$\boxed{\frac{1}{2} \quad \boxed{3}} \qquad \dim = 120$$

$$\begin{array}{c|c}
\hline
1\\
2\\
\hline
3\\
\hline
4\\
\hline
6\\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
1\\
\hline
2\\
\hline
3\\
\hline
4\\
\hline
5\\
\hline
6\\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
1\\
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2\\
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3\\
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4\\
\hline
5\\
\hline
6\\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
1\\
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3\\
\hline
4\\
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5\\
\hline
6\\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
1\\
\hline
2\\
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3\\
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4\\
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5\\
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6\\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
1\\
\hline
2\\
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3\\
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4\\
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6\\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
1\\
\hline
2\\
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3\\
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6\\
\hline
\end{array}$$

$$\begin{array}{c|c}
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6\\
\hline
\end{array}$$

$$\begin{array}{c|c}
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1\\
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3\\
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4\\
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5\\
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6\\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
1\\
\hline
2\\
\hline
3\\
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4\\
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5\\
\hline
6\\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
4 \\
5 \\
\hline
6
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
2 & 3 \\
\hline
6
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
6
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
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\end{array}$$

$$\begin{array}{c|c}
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1 & 2 \\
\hline
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\end{array}$$

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
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\end{array}$$

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
6
\end{array}$$

$$\begin{array}{c|c}
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4 \\
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\end{array}$$

$$\begin{array}{c|c}
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\end{array}$$

$$\begin{array}{c|c}
\hline
1 & 2 \\
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\end{array}$$

$$\begin{array}{c|c}
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\end{array}$$

$$\begin{array}{c|c}
\hline
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\hline
\end{array}$$

$$\begin{array}{c|c}
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\end{array}$$

$$\begin{array}{c|c}
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\end{array}$$

$$\begin{array}{c|c}
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\end{array}$$

$$\begin{array}{c|c}
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\end{array}$$

$$\begin{array}{c|c}
\hline
3 \\
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4 \\
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\hline
6 \\
\hline
\end{array}$$

$$\begin{array}{|c|c|}
\hline
1 & 2 \\
\hline
3 & \\
\hline
4 & \\
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & \dim = 120 \\
\hline
2 & \hline
3 & 4
\end{array}$$

$$\dim = 120$$

$$\boxed{\frac{2}{4}}$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
3 \\
\hline
5 \\
\hline
6 \\
\hline
\end{array}$$
dim = 120

$$\begin{array}{c}
1\\3
\end{array}$$

$$\begin{array}{c}
4\\5
\end{array}$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
3 & 4
\end{array}$$

$$\begin{array}{c|c}
\hline
5 \\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
2 & 3 \\
\hline
4 \\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
5 & 6 \\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
4 \\
\hline
5
\end{array}$$

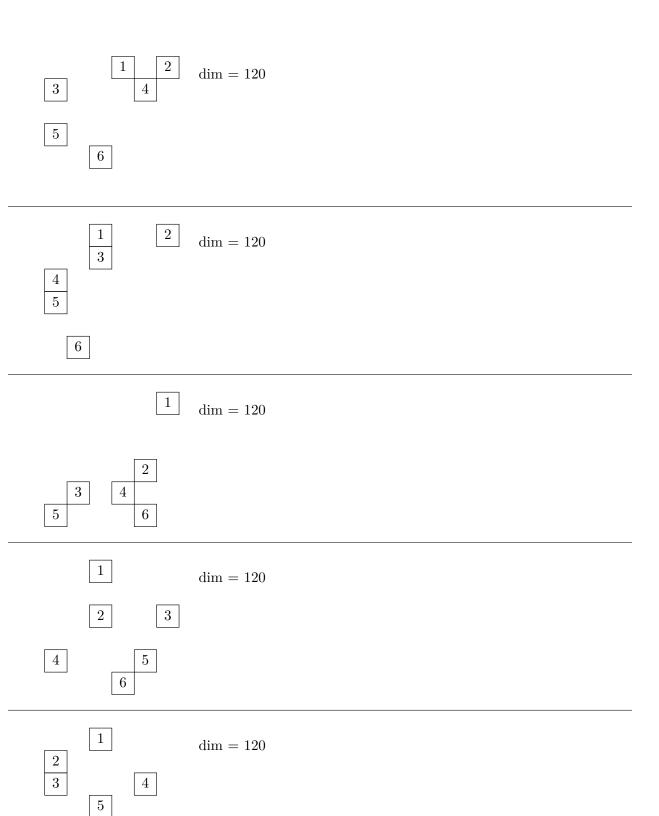
$$\begin{array}{c|c}
\hline
6 \\
\hline
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & 2
\end{array}$$

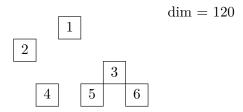
$$\hline
3 & 4
\end{array}$$

$$\hline
6 & 5$$

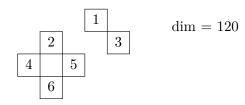
$$\boxed{1} \qquad \dim = 120$$



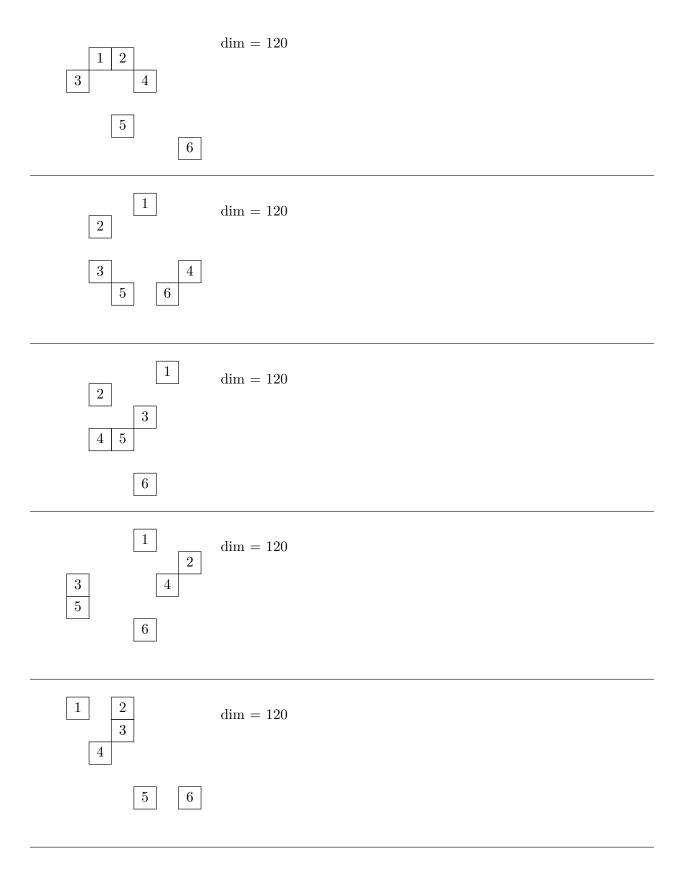
$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & 4 \\
\hline
& 5 \\
\hline
& 6 \\
\end{array}$$



$$\begin{array}{c|c}
\hline
1 & \dim = 120 \\
\hline
2 & \\
\hline
3 & \\
\hline
4 & \\
\hline
5 & \boxed{6}
\end{array}$$



$$\begin{array}{c|c}
\hline
1 \\
\hline
3 \\
\hline
\end{array} \qquad \begin{array}{c|c}
\hline
2 \\
\hline
4 \\
\hline
\end{array} \qquad \text{dim} = 120$$



 $\begin{array}{c|c}
\hline
1 & 2
\end{array}$   $\begin{array}{c|c}
\hline
3
\end{array}$   $\begin{array}{c|c}
\hline
4 & 5
\end{array}$   $\hline
6
\end{array}$   $\begin{array}{c|c}
\hline
1 & \dim = 120
\end{array}$ 

5 6

 $\boxed{1}$   $\boxed{2 \mid 3}$   $\dim = 120$ 

5 6

 $\begin{array}{c|c}
\hline
1\\
3
\end{array} \qquad \qquad \boxed{2} \qquad \dim = 120$   $\boxed{5} \qquad \boxed{6}$ 

 $\begin{array}{c|c}
\hline
1 & \dim = 120 \\
\hline
2 & & \\
\hline
3 & & \\
\hline
6 & & \\
\hline
\end{array}$ 

$$\begin{array}{c|c}
\hline
2 \\
4
\end{array}$$

$$\hline
5$$

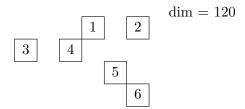
$$\hline
6$$

$$\boxed{1} \qquad \boxed{2} \qquad \dim = 120$$

$$\boxed{1} \qquad \boxed{2} \qquad \dim = 120$$

$$\begin{array}{c|c}
1 & 2 \\
\hline
3 & 4 \\
\hline
 & 5
\end{array}$$

$$\dim = 120$$



$$\begin{array}{c|c}
\hline
2 & \hline
3 & \dim = 120 \\
\hline
6 & \hline
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
& 3 \\
\hline
4 \\
\hline
& 5
\end{array}$$

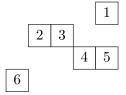
$$\begin{array}{c|c}
\hline
6
\end{array}$$

$$\begin{array}{c|c}
\hline
2 & 3
\end{array} \qquad \begin{array}{c|c}
\hline
4
\end{array} \qquad \text{dim} = 120$$

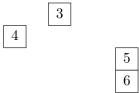
$$\begin{array}{c|c}
\hline
1 & & \dim = 120 \\
\hline
2 & & & \\
\hline
3 & & 4 \\
\hline
& 5 & & \\
\end{array}$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
4 \\
\hline
5 \\
\hline
6
\end{array}$$
dim = 120

$$\dim = 120$$



$$\boxed{1} \qquad \boxed{2} \qquad \dim = 120$$



$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & \\
\hline
4 & 5
\end{array}$$
dim = 120

$$\begin{array}{c|c}
1 & 2 \\
\hline
3 & 4
\end{array}$$

 $\boxed{1} \qquad \boxed{2} \qquad \qquad \dim = 120$ 

 3

 4

 5

 6

 $\begin{array}{c|c}
 & \dim = 120 \\
\hline
2 & 3 \\
\hline
4 & 5
\end{array}$ 

 $\boxed{1}$  dim = 120

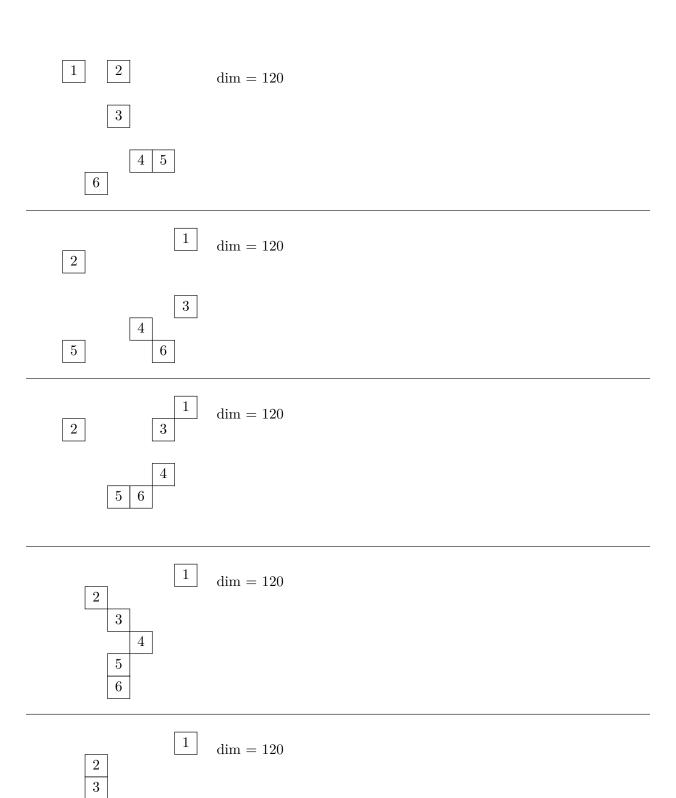
 2

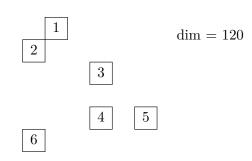
 3
 4

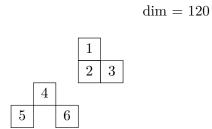
 5
 6

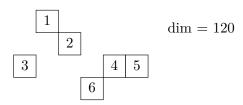
 $\boxed{1} \quad \dim = 120$ 

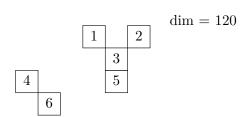
 $\boxed{1} \qquad \boxed{2} \qquad \dim = 120$ 

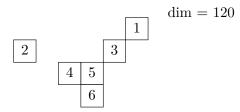












 $\begin{array}{c|c}
\hline
1 & \hline
2 & \dim = 120 \\
\hline
3 & \boxed{4} \\
\hline
5 & \hline
6
\end{array}$ 

 $\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & 4 \\
\hline
5 & \\
\hline
6 & \\
\end{array}$ dim = 120

 $\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
3 \\
\hline
4 \\
\hline
\end{array}$   $\dim = 120$ 

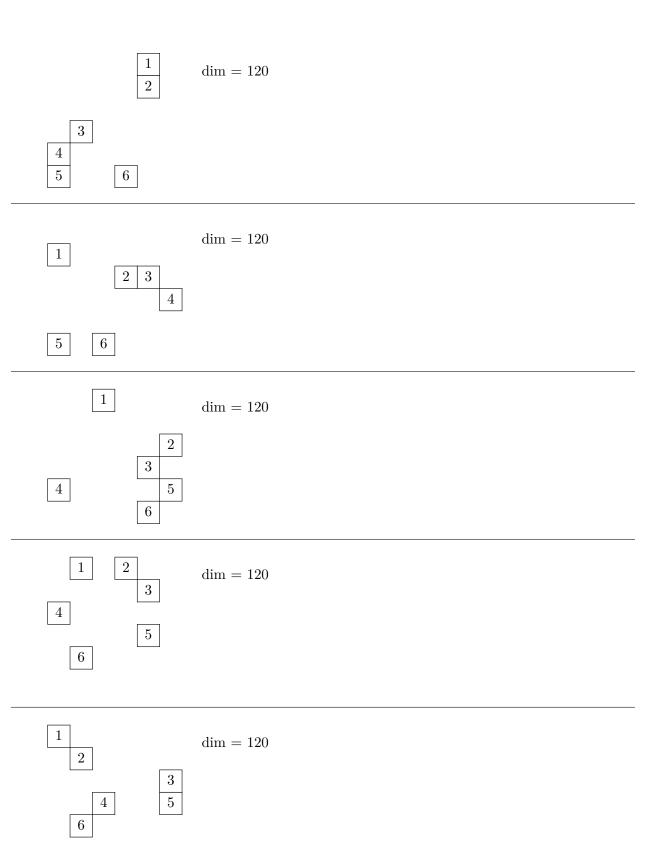
 $\dim = 120$ 

 1
 2

 3
 5

 6
 5

 $\begin{array}{c|c}
1 & 2 \\
\hline
3 & 4 & 5
\end{array}$ 



 $\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 \\
\hline
4
\end{array}$ 

6

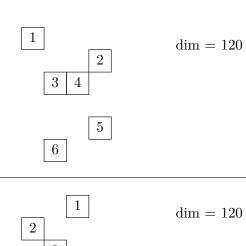
 $\begin{array}{c|c}
\hline
1 & \dim = 120 \\
\hline
2 & \boxed{3} \\
\hline
5 & \boxed{6}
\end{array}$ 

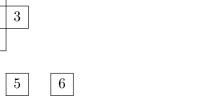
 $\begin{array}{c|c}
\hline
1 \\
\hline
2 & 3 \\
\hline
4 & 5
\end{array}$  dim = 120

6

 $\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
4 \\
\hline
5
\end{array}$   $\begin{array}{c}
\hline
6 \\
\hline
\end{array}$   $\begin{array}{c}
\dim = 120 \\
\hline$ 

 $\begin{array}{c|c}
1 \\
\hline
3 \\
\hline
4 \\
\hline
5
\end{array}$ 

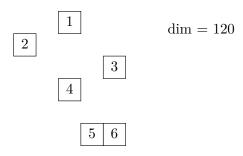


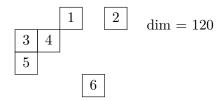


$$\begin{array}{c|c}
\hline
3\\
\hline
4\\
\hline
5
\end{array}$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
3 \\
\hline
6 \\
\end{array}$$
dim = 120

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 \\
\hline
5 \\
\hline
6 \\
\end{array}$$
dim = 120

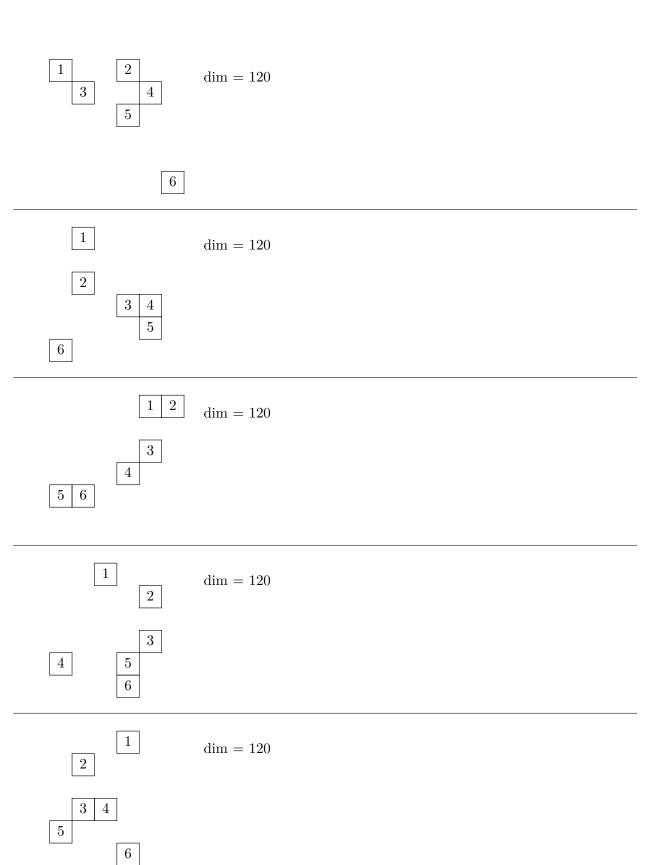




$$\boxed{\begin{array}{c|c} 1 & 2 \\ \hline & 3 \end{array}} \qquad \dim = 120$$

$$\begin{array}{c|c}
 & \dim = 120 \\
\hline
2 & 3 \\
\hline
4 & 5
\end{array}$$

$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
& 3 \\
\hline
& 4 \\
\hline
& 5 \\
\hline
\end{array}$$
dim = 120



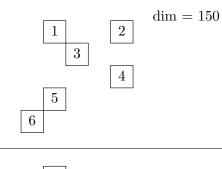
 $\begin{array}{c|c}
\hline
1 \\
\hline
3 \\
\hline
4 \\
\hline
5 \\
\hline
\end{array}$   $\begin{array}{c|c}
\hline
2 \\
\hline
6 \\
\hline$ 

 $\begin{array}{c|c}
\hline
1 \\
\hline
2 & 3 \\
\hline
4 \\
\hline
6 \\
\end{array}$ dim = 120

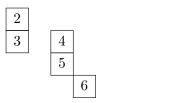
 $\begin{array}{c|c}
1 & \dim = 150 \\
\hline
2 & & & \\
\hline
4 & 5 & & \\
\hline
6 & & & \\
\end{array}$ 

 $\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
3 \\
\hline
4 \\
\hline
5 \\
\hline
6 \\
\hline
\end{array}$ 

6





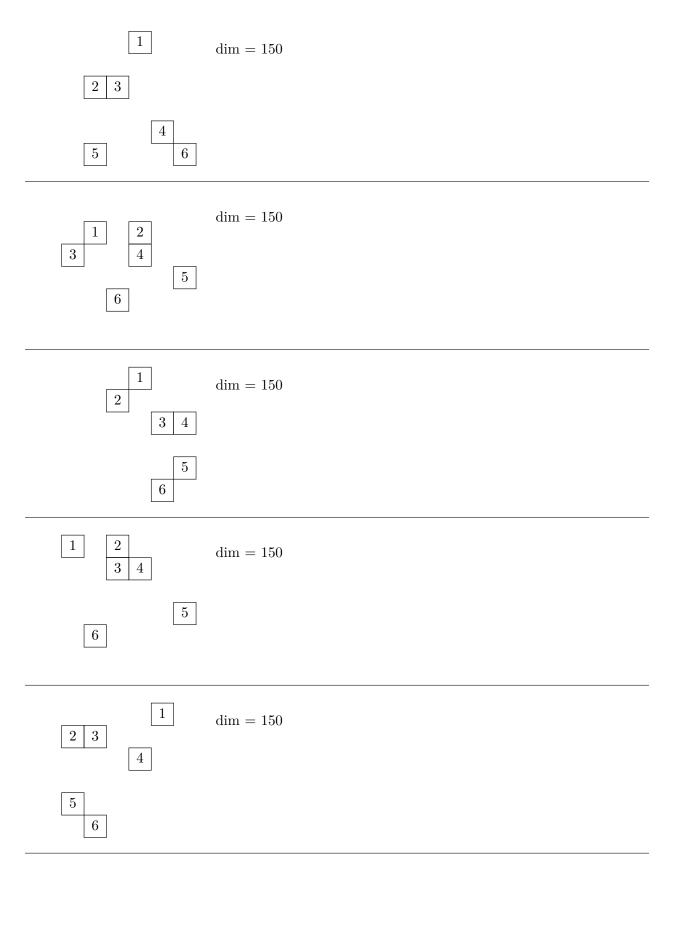


$$\boxed{1} \qquad \dim = 150$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 & 3
\end{array}
\qquad dim = 150$$

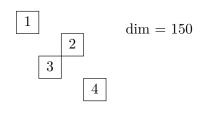
$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & 4 \\
\hline
\end{array}$$

$$\begin{array}{c|c}
\text{dim} = 150 \\
\hline$$

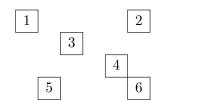


$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & \\
\end{array}$$

$$\dim = 150$$

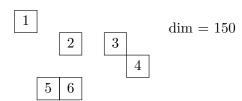


$$\dim = 150$$



$$\dim = 150$$

$$\dim = 150$$

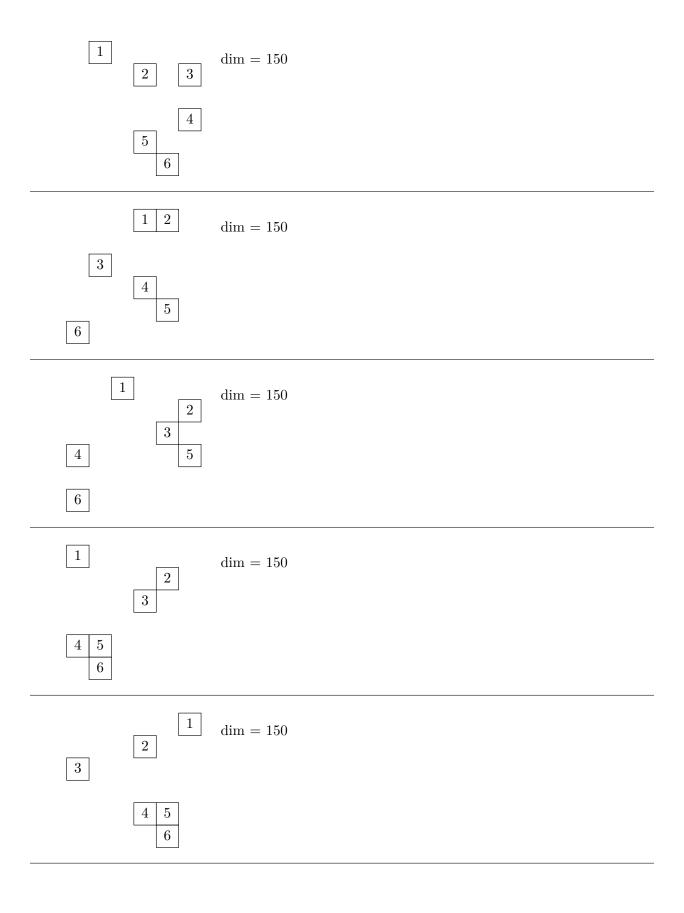


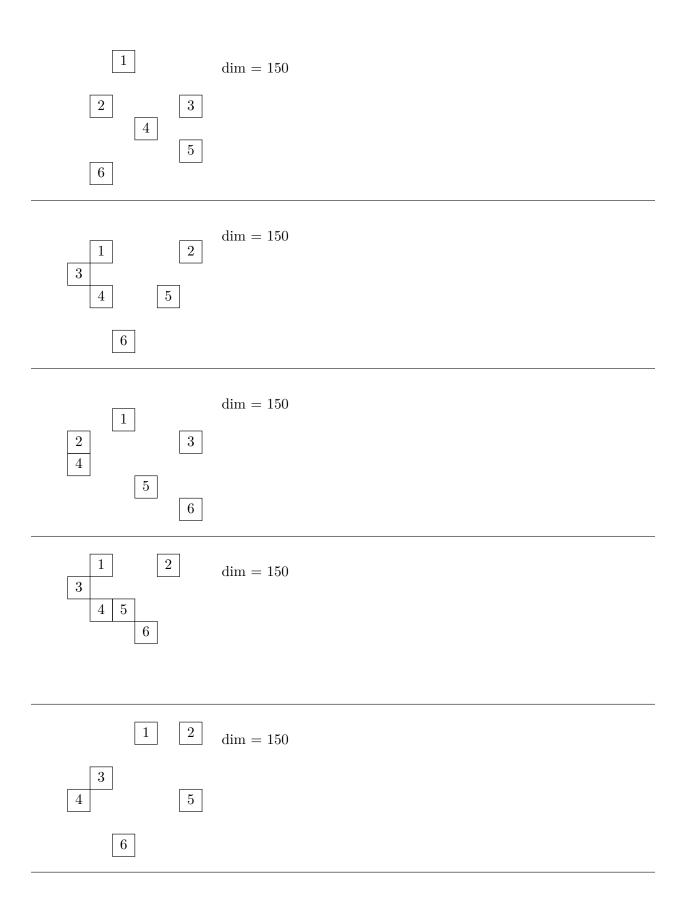
$$\begin{array}{c|c}
\hline
1 & \dim = 150 \\
\hline
3 & \\
4 & 5 & \\
\hline
6 & \\
\end{array}$$

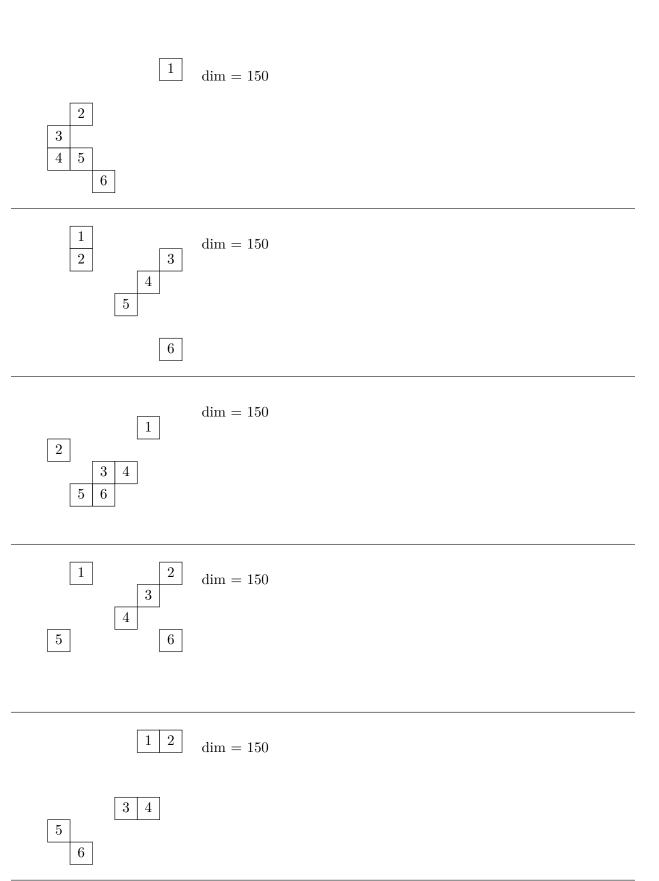
$$\begin{array}{c|c} & & \dim = 150 \\ \hline 1 & & 2 \\ \hline & 3 & \\ \hline & 4 & 5 & \\ \hline \end{array}$$

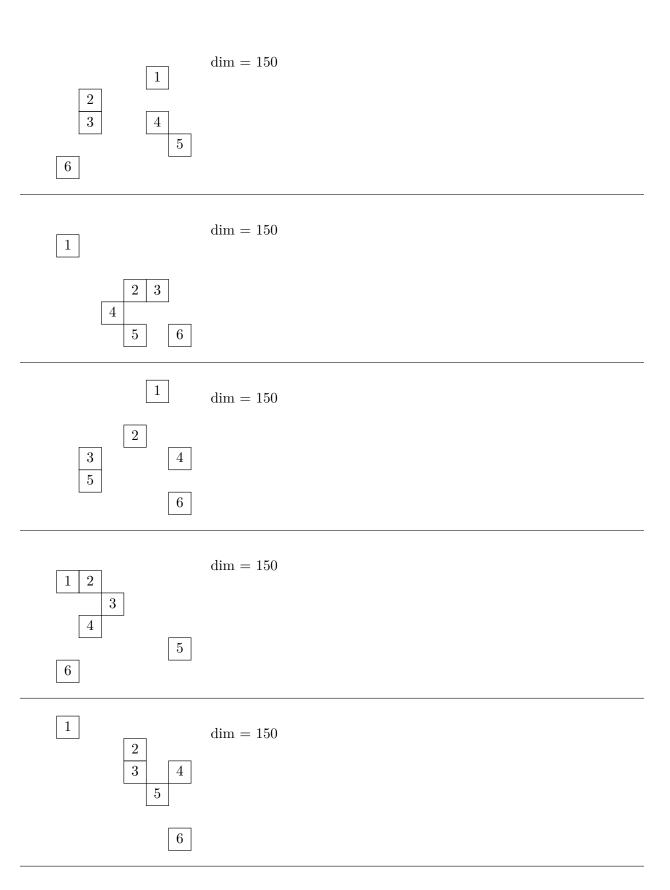
$$\begin{array}{c|c}
\hline
2 & & \\
\hline
4 & \\
\hline
5 & \\
\hline
\end{array}$$

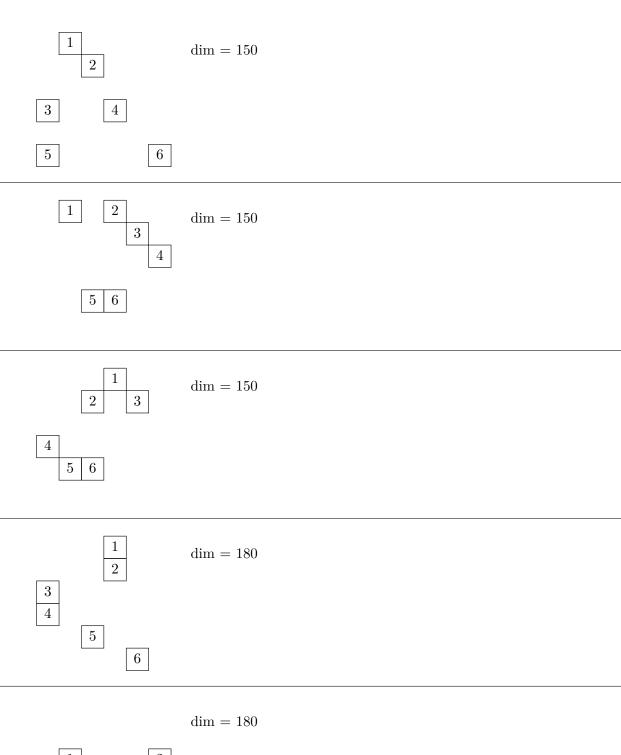
$$\dim = 150$$

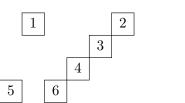


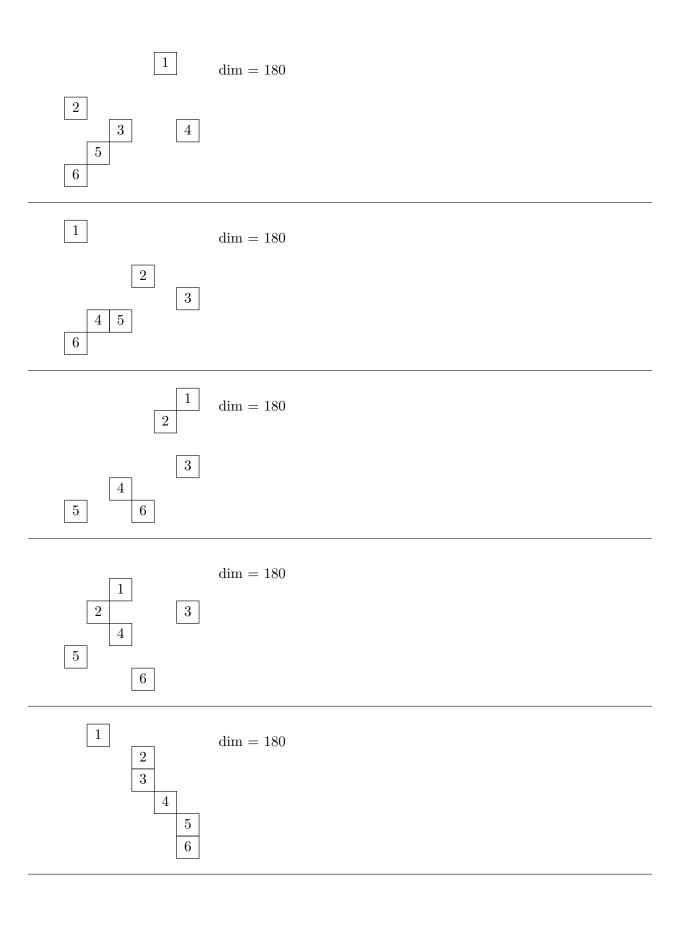


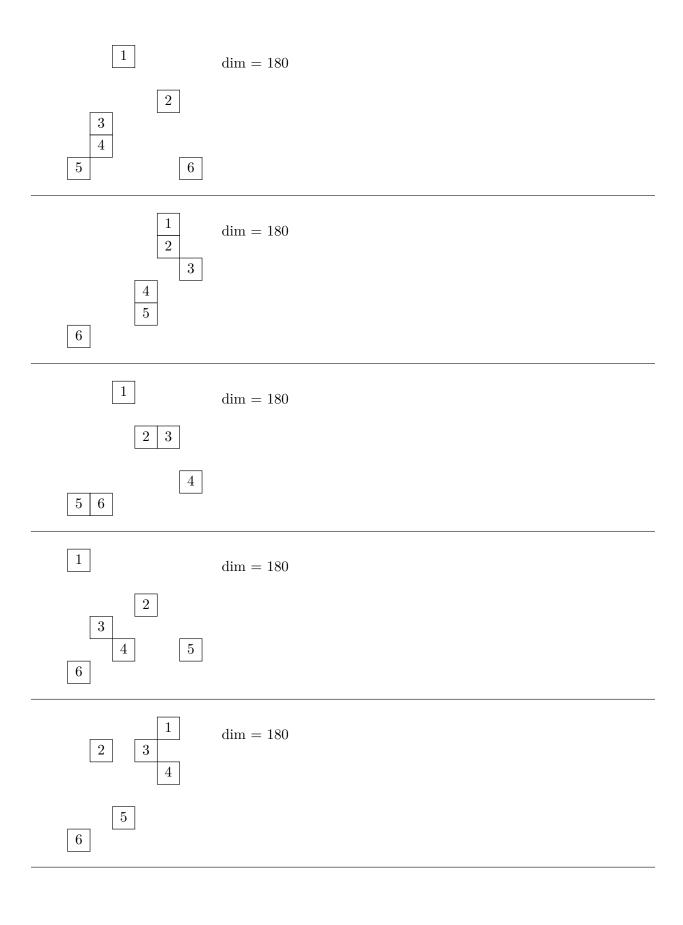


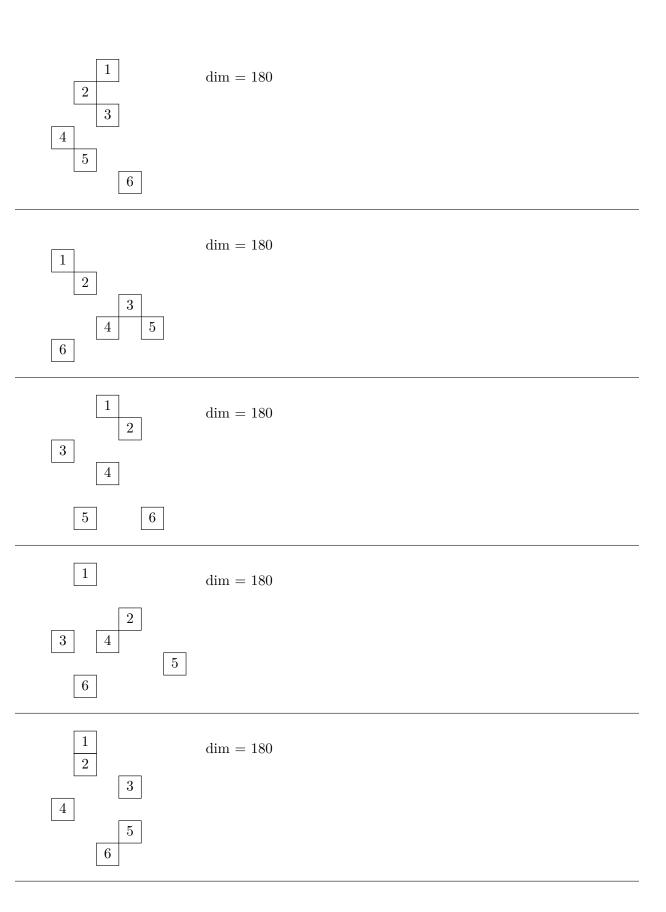


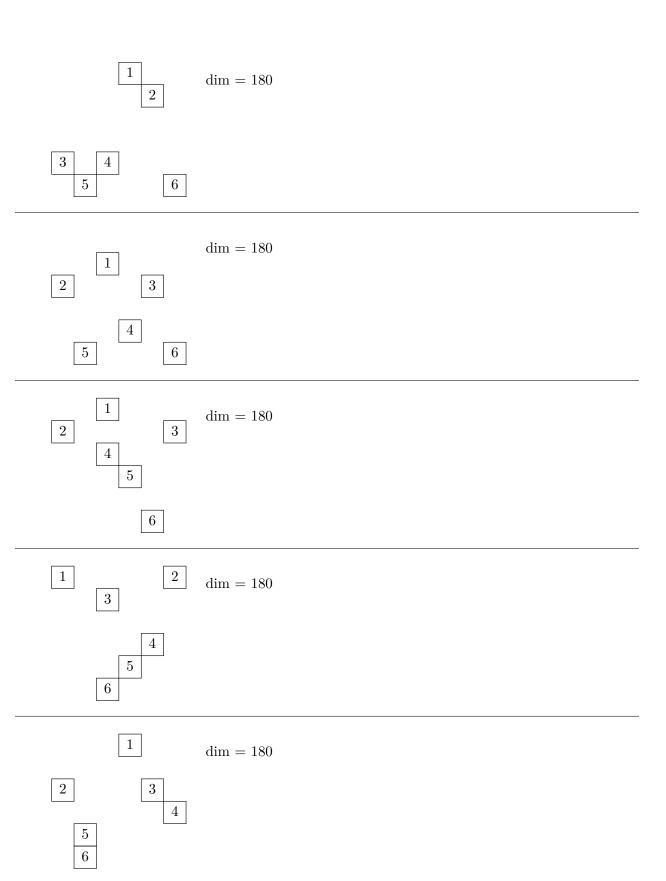


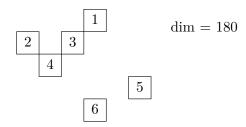


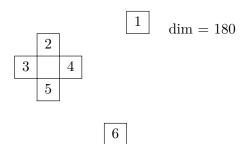








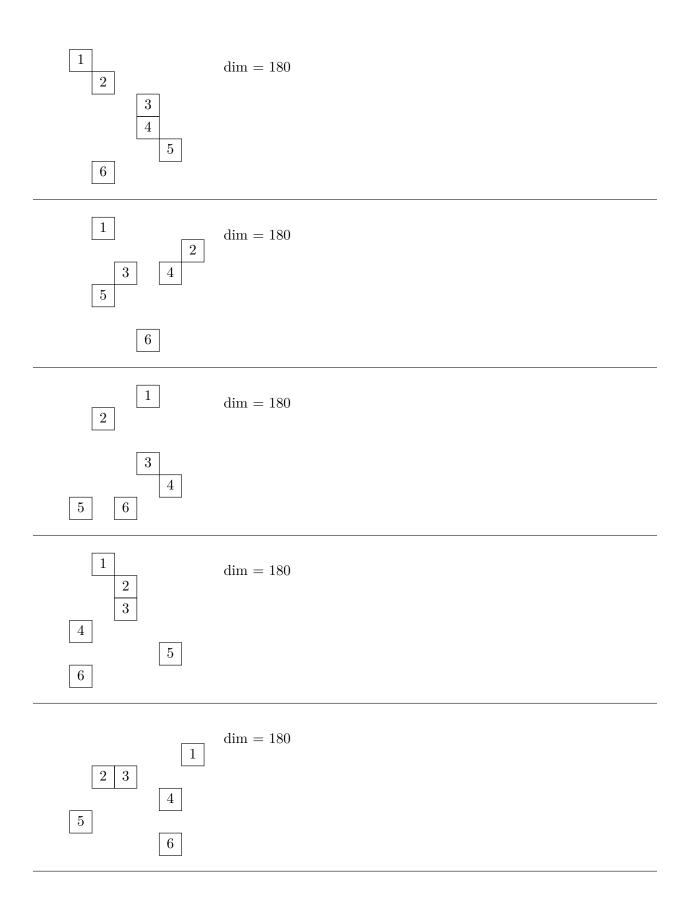


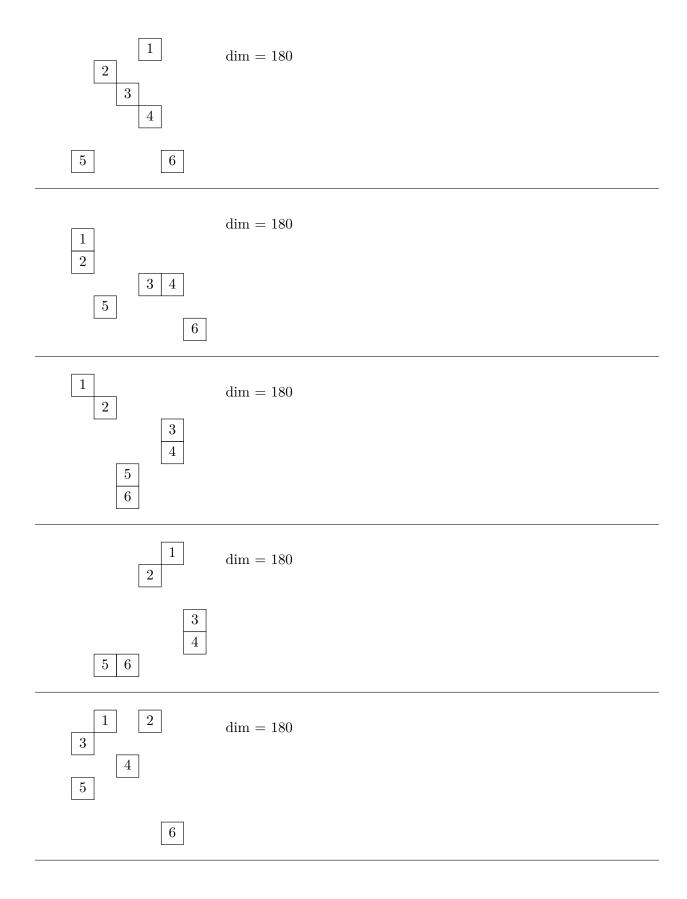


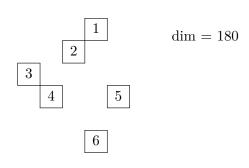
$$\begin{array}{c|c}
\hline
1 & 2 \\
\hline
3 & \dim = 180 \\
\hline
4 & \\
\hline
5 & \\
\hline
\end{array}$$

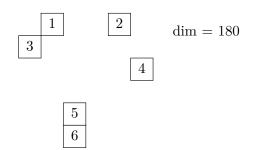
$$\begin{array}{c|c}
1 & 2 \\
\hline
 & 3 \\
\hline
 & 5 \\
\hline
 & 6 \\
\end{array}$$

$$\begin{array}{c|c}
\hline
1 \\
\hline
2 \\
\hline
3 \\
\hline
5 \\
\hline
6 \\
\end{array}$$





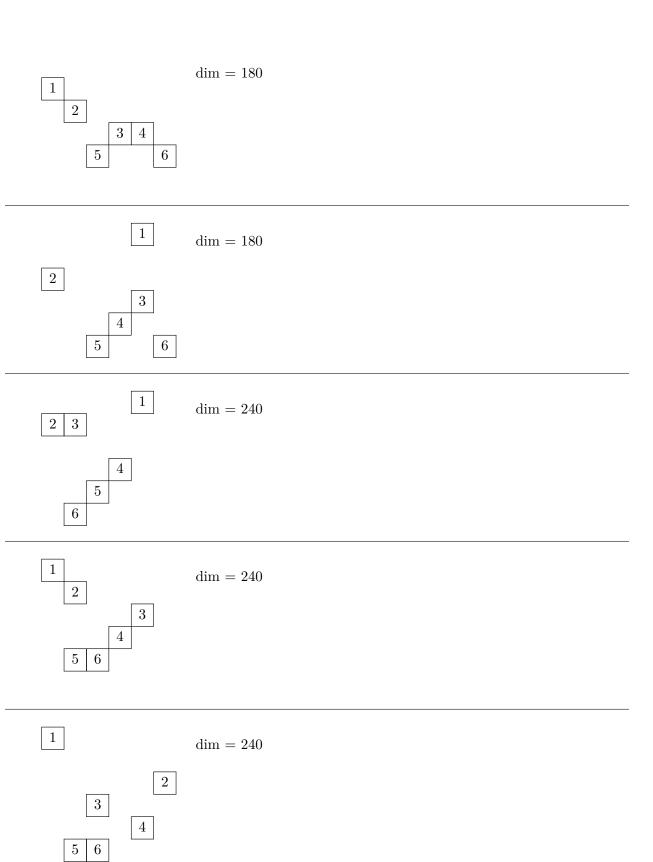


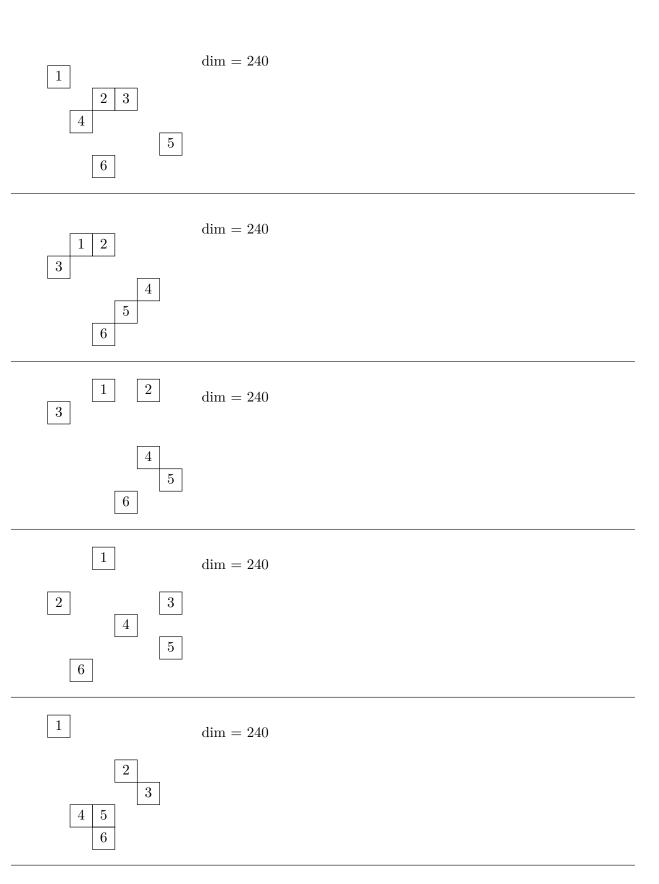


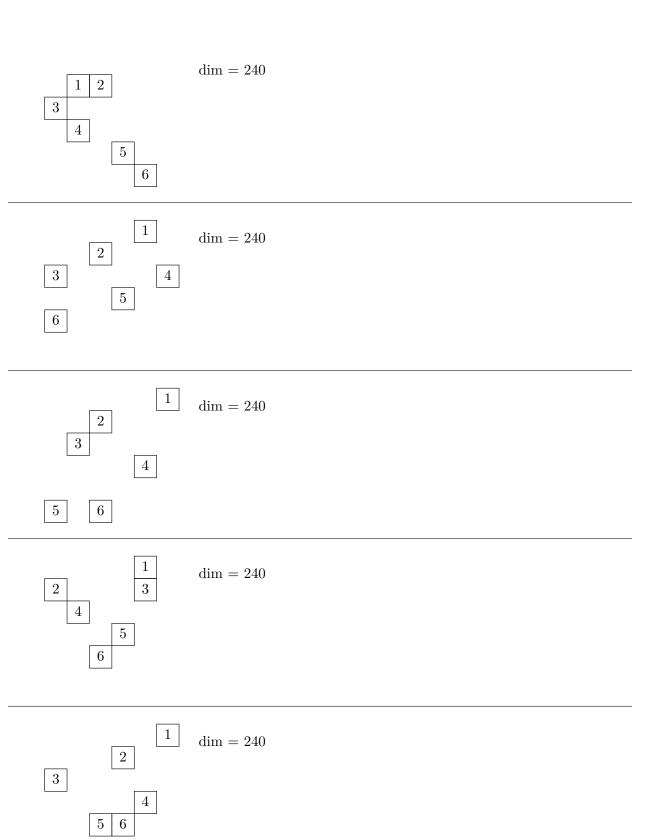
$$\begin{array}{c|c}
 & \dim = 180 \\
\hline
 & 2 \\
\hline
 & 3 \\
\hline
 & 4 \\
\hline
 & 5 \\
\hline
 & 6 \\
\end{array}$$

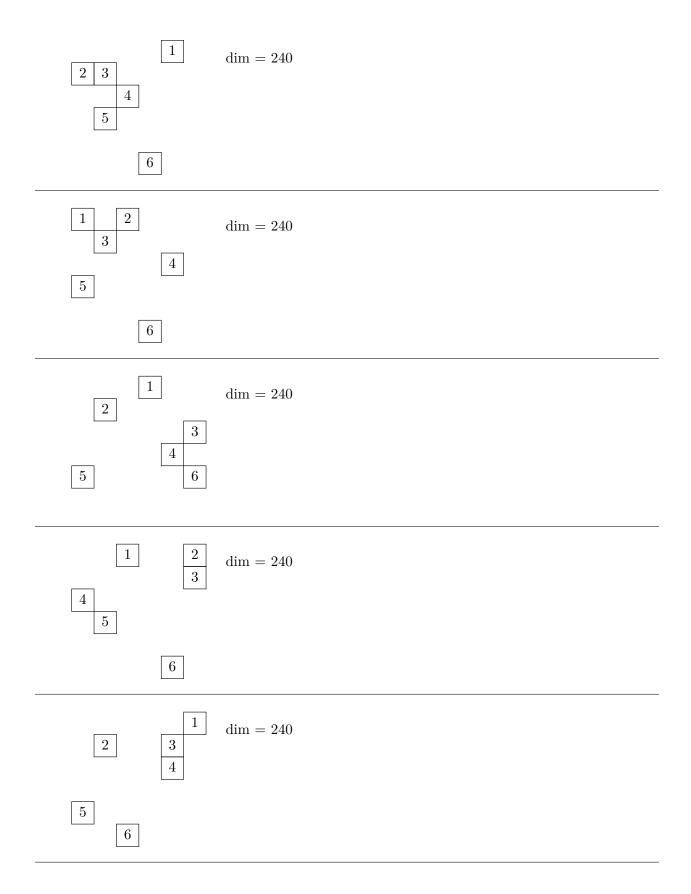
$$\begin{array}{c|c}
\hline
1 & & \dim = 180 \\
\hline
3 & & 4 \\
\hline
\hline
6 & & \\
\end{array}$$

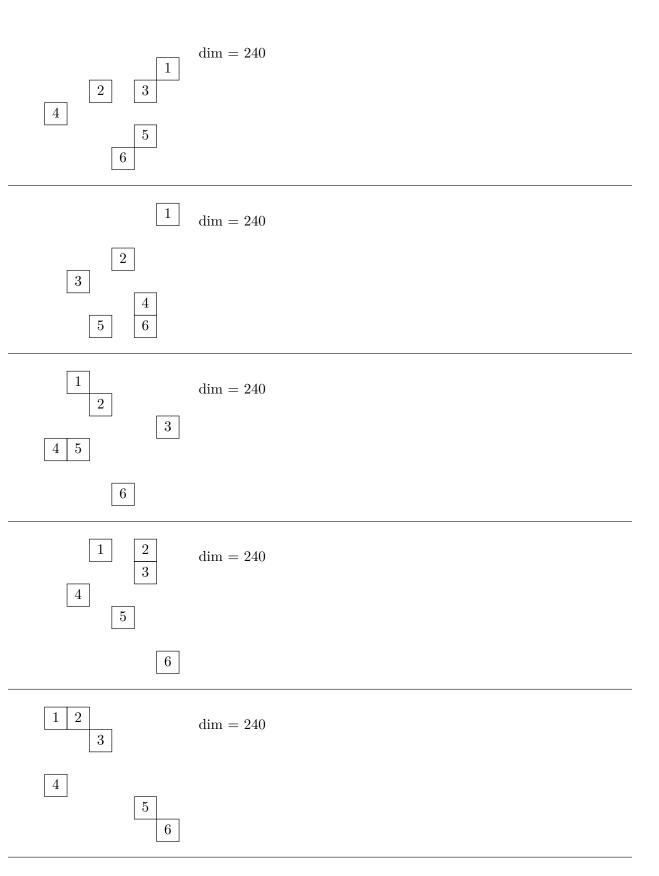
$$\begin{array}{c}
1 \\
2 \\
3 \\
\hline
4 \\
5 \\
\hline
6
\end{array}$$

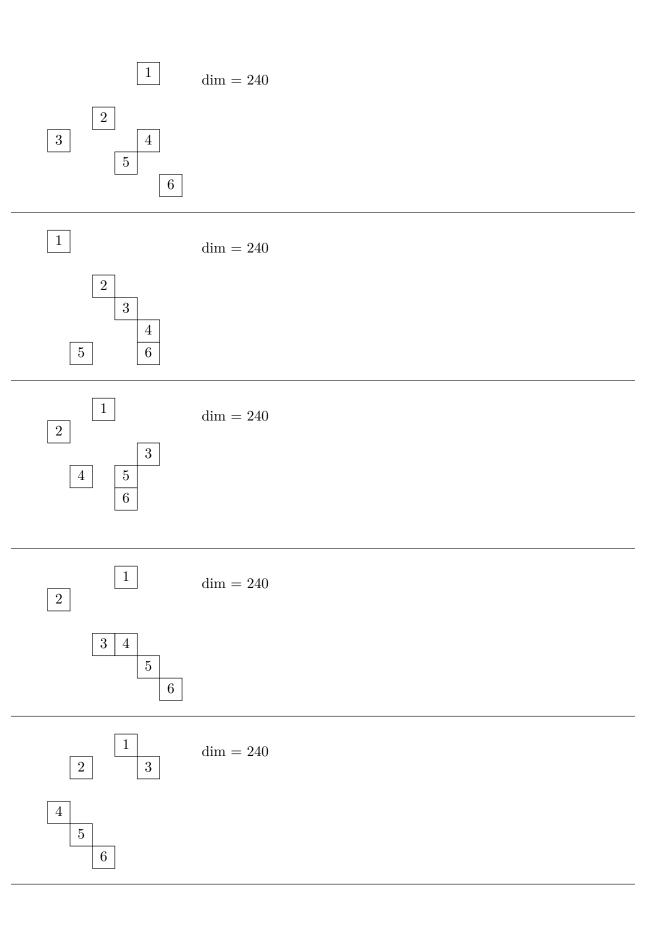




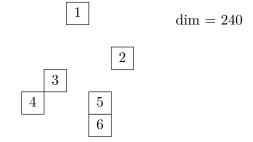




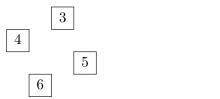




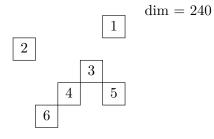
$$\begin{array}{c|c}
\hline
1 & \dim = 240 \\
\hline
3 & \hline
4 & \\
\hline
5 & 6 & \\
\end{array}$$

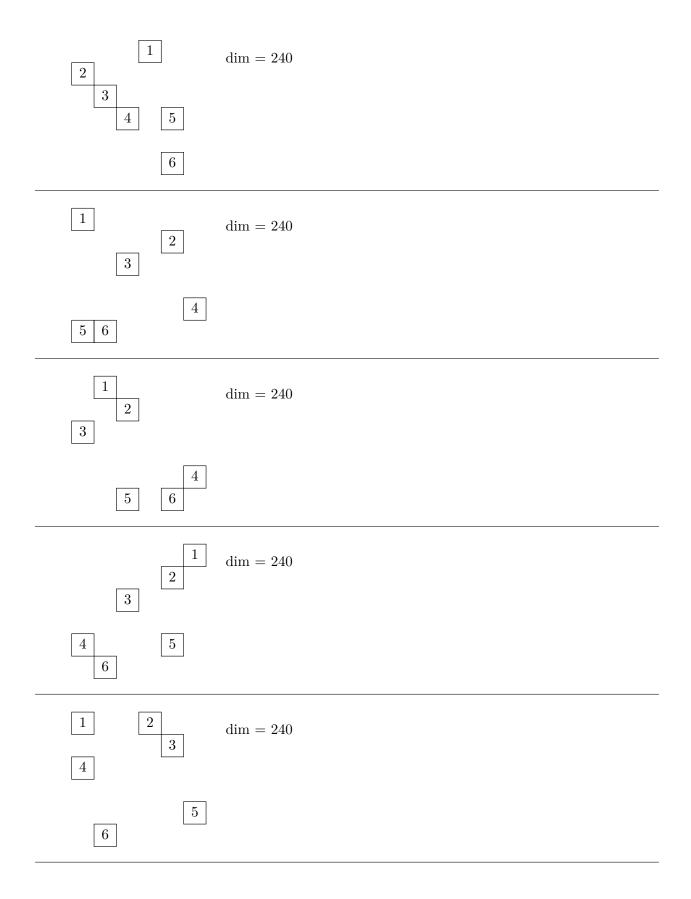


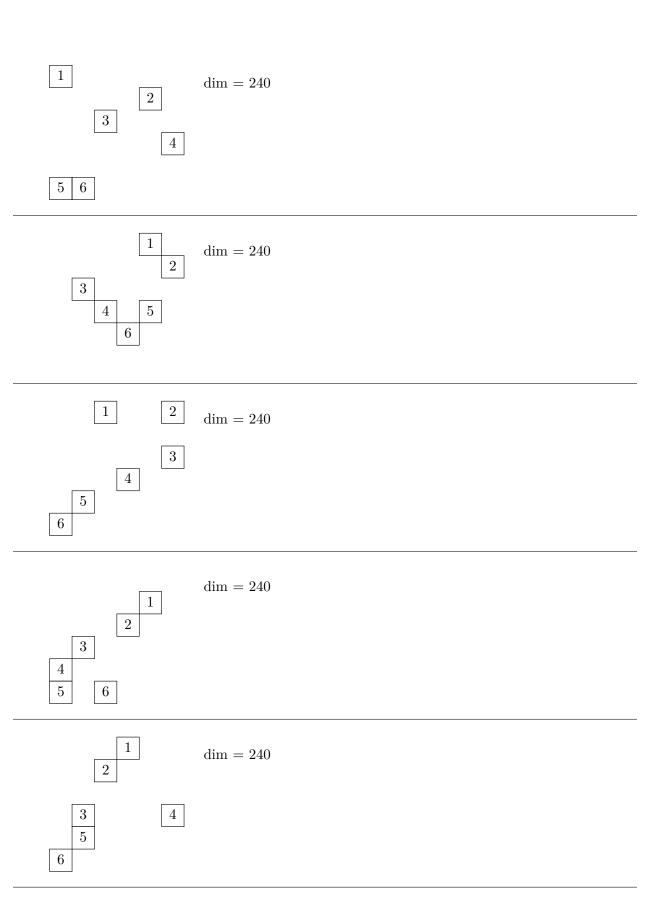
$$\boxed{1 \quad 2} \qquad \qquad \dim = 240$$

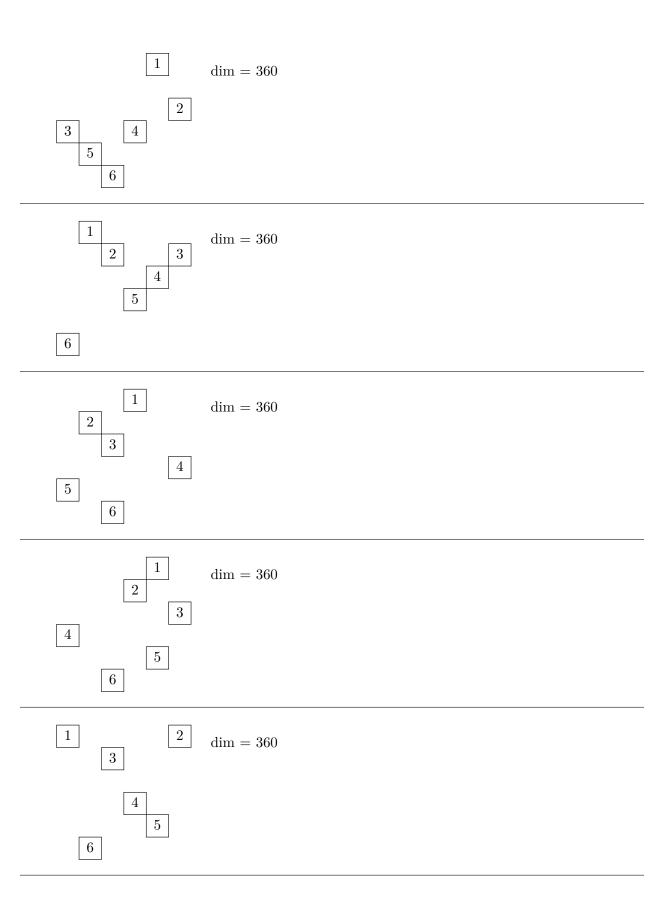


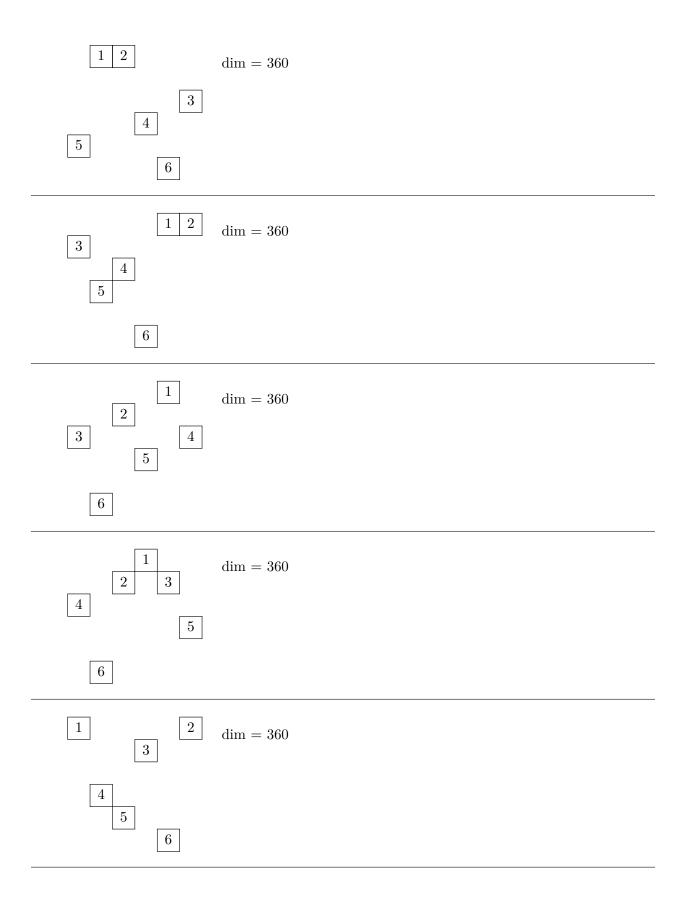
$$\begin{array}{c}
\text{dim} = 240 \\
\hline
2 \\
\hline
3 \\
\hline
5 \\
\hline
6
\end{array}$$

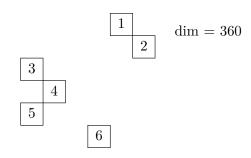












 $[5,\,9,\,10,\,14,\,15,\,16,\,19,\,20,\,21,\,24,\,26,\,30,\,35,\,36,\,40,\,42,\,45,\,47,\,54,\,60,\,61,\,66,\,75,\,80,\,90,\,96,\\120,\,150,\,180,\,240,\,360]$