

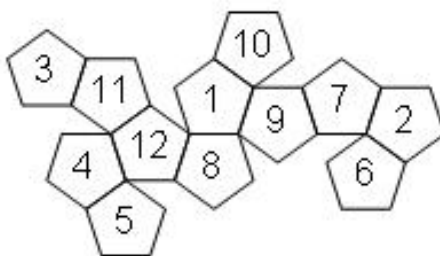
prof. Matemko



Sosedne strani mnogoterca

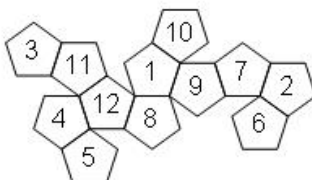
Dana je mreža mnogoterca z označenimi stranmi.
 Za vsako stran določi njene sosedne strani.

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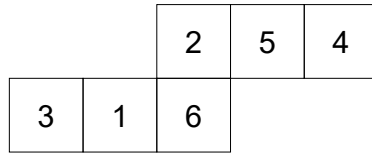
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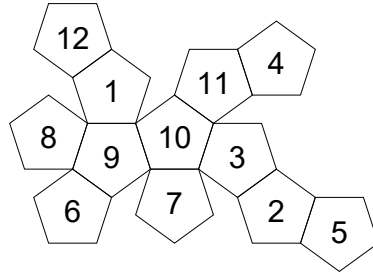
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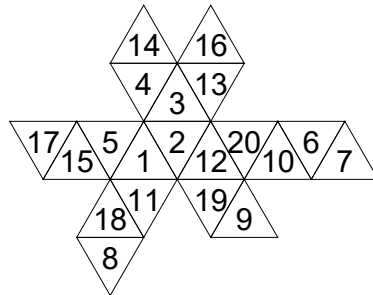
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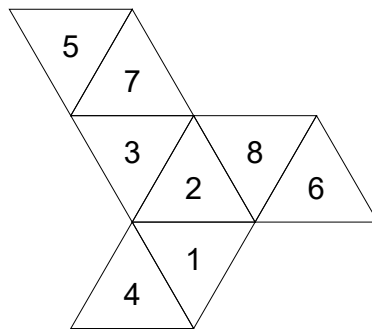
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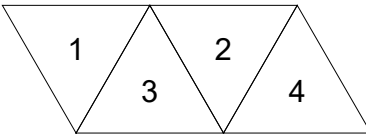
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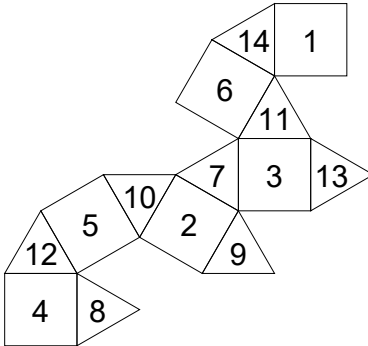
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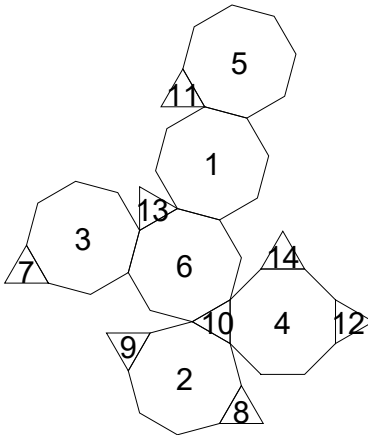
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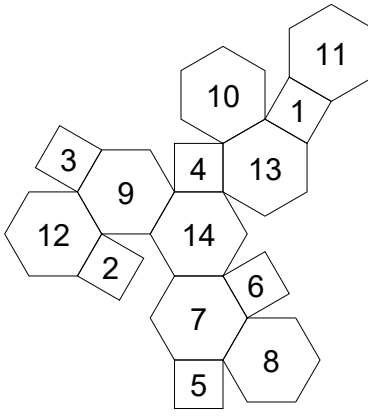
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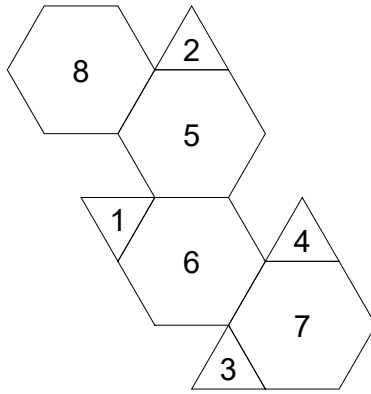
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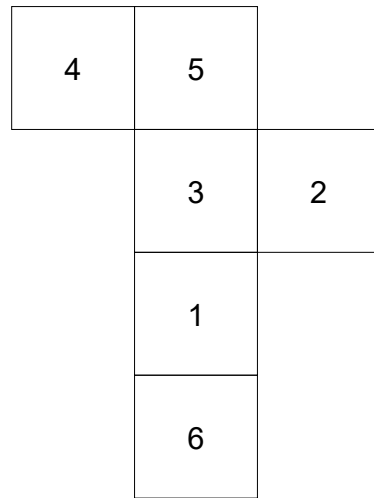
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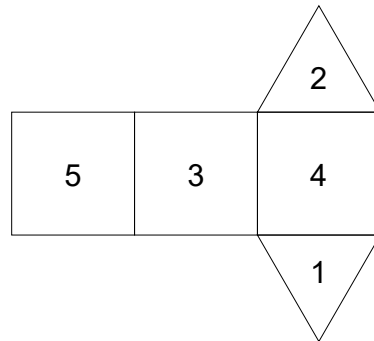
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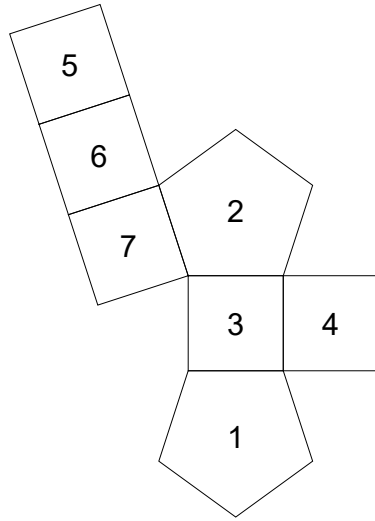
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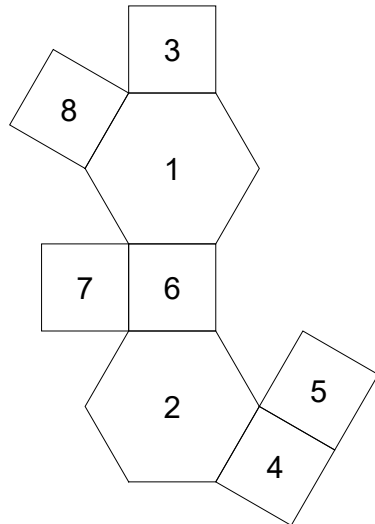
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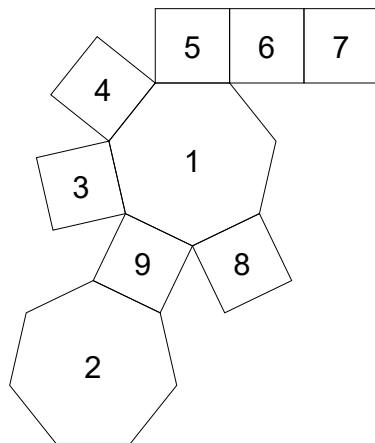
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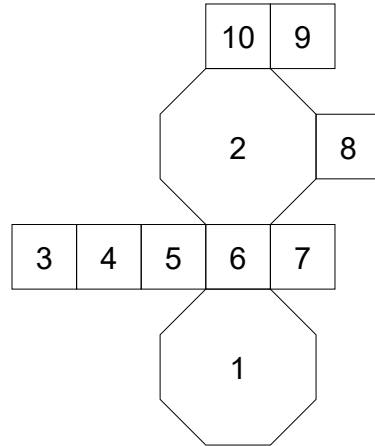
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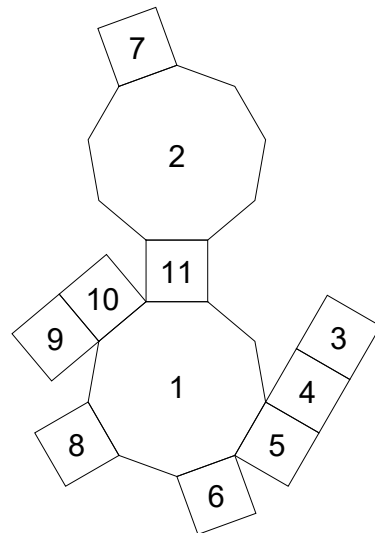
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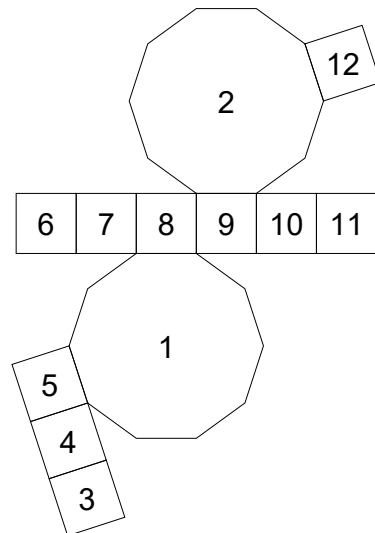
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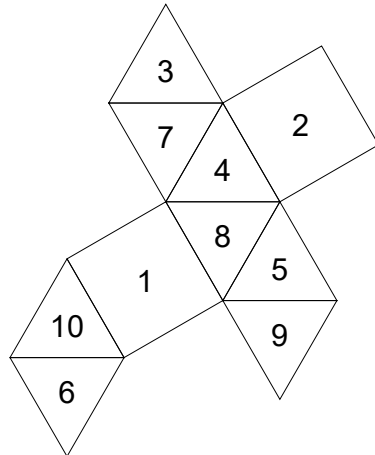
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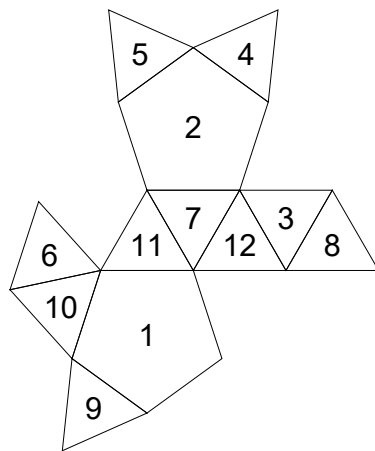
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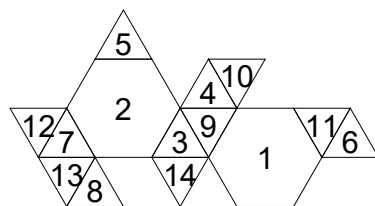
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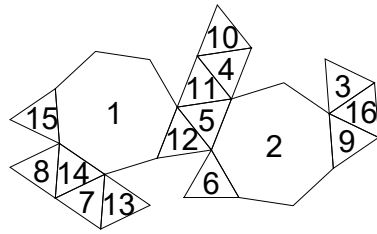
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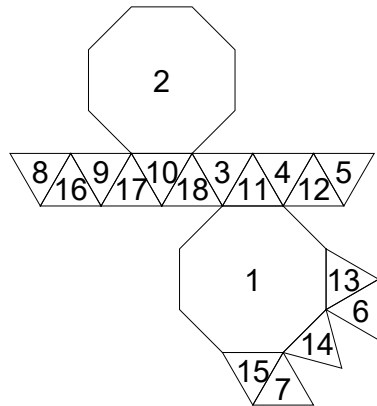
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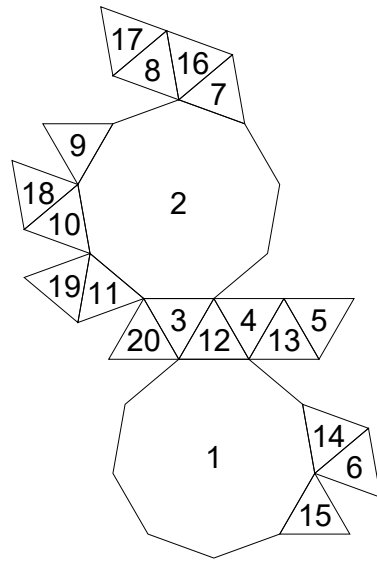
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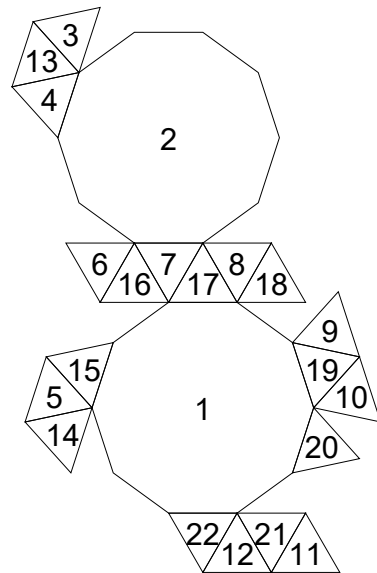
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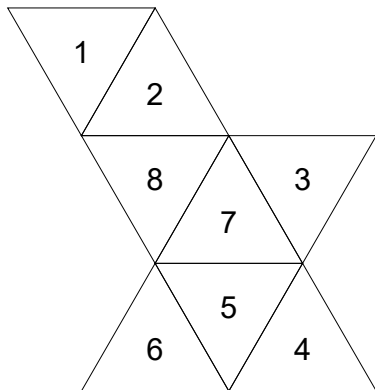
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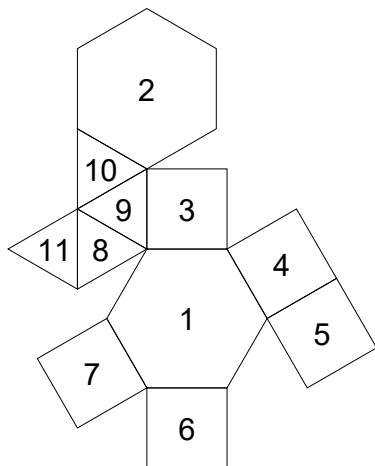
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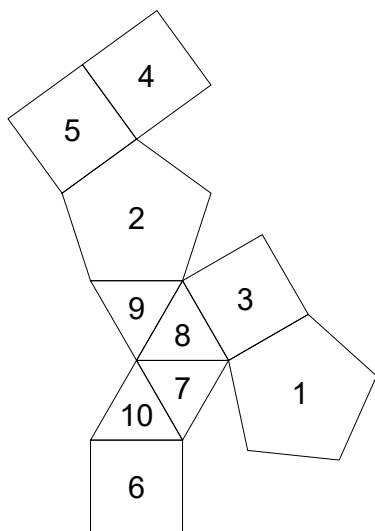
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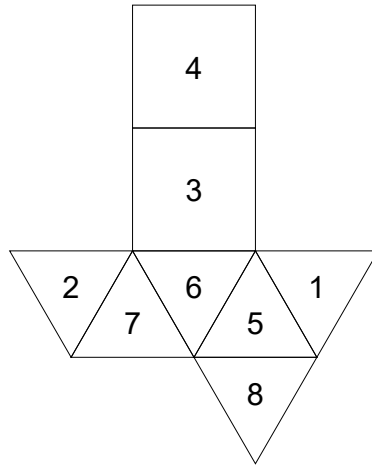
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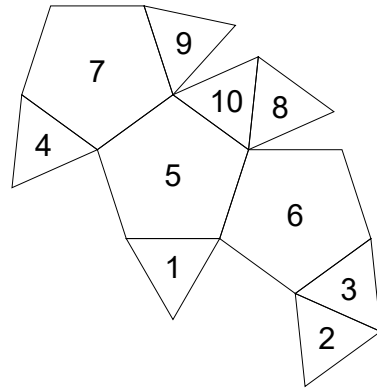
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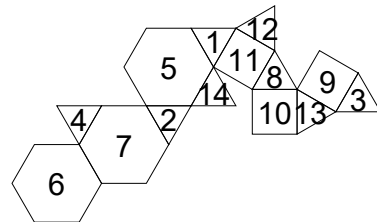
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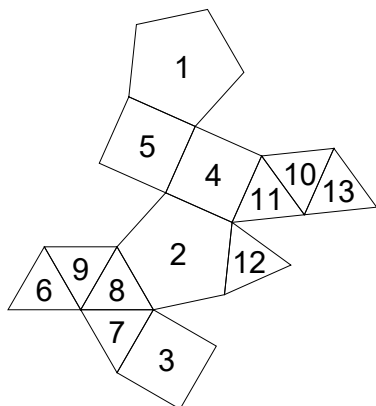
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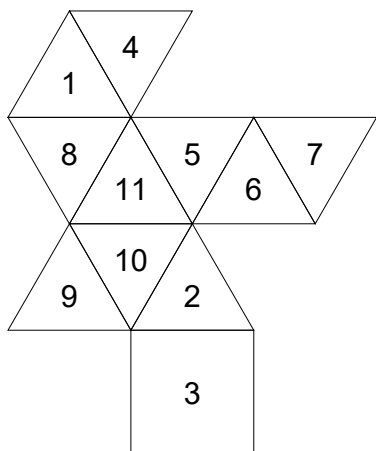
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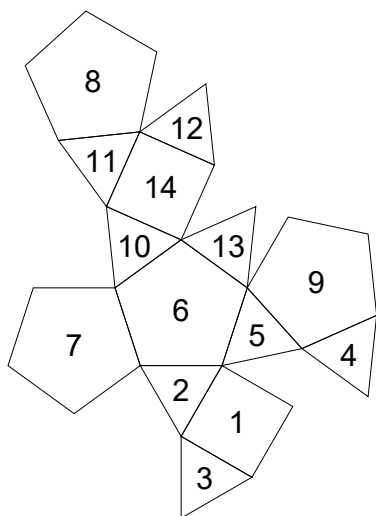
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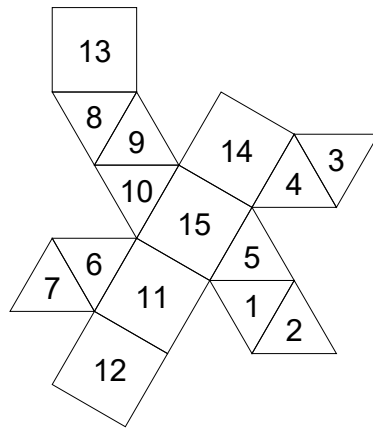
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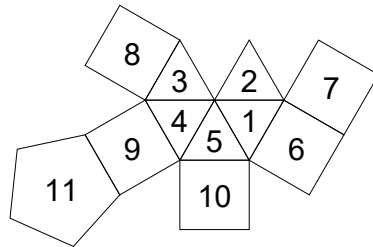
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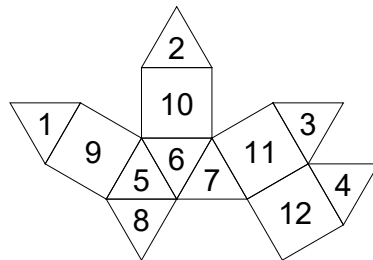
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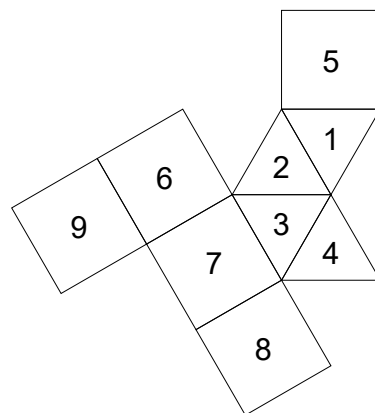
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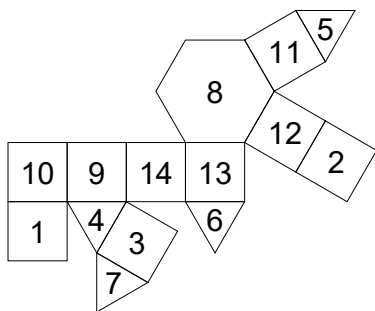
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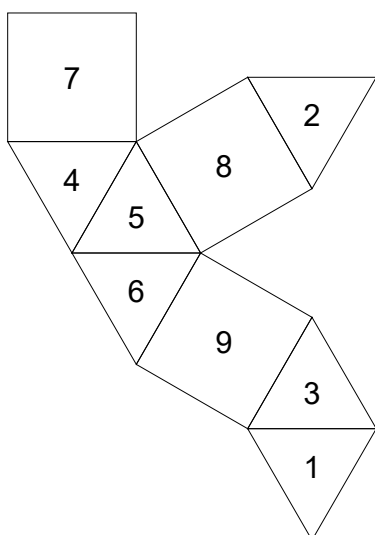
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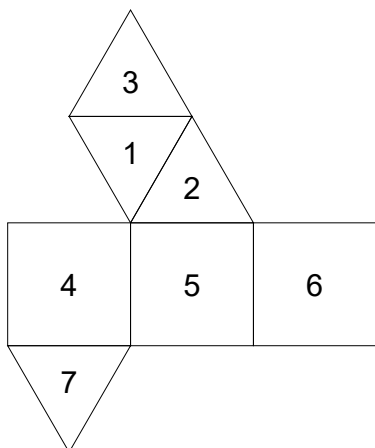
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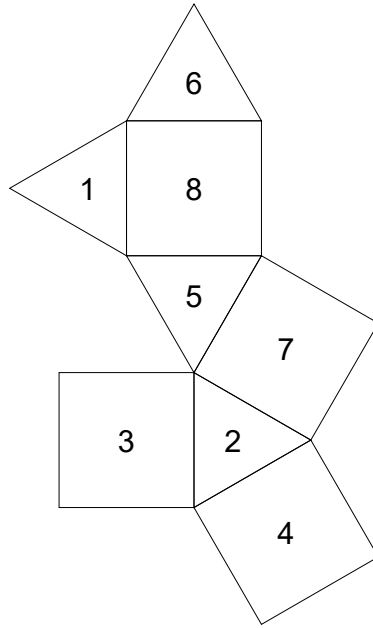
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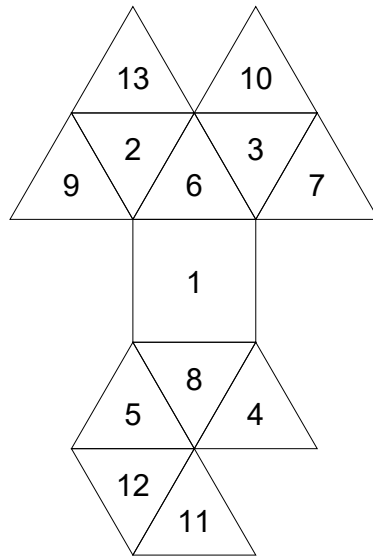
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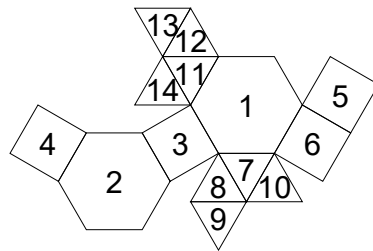
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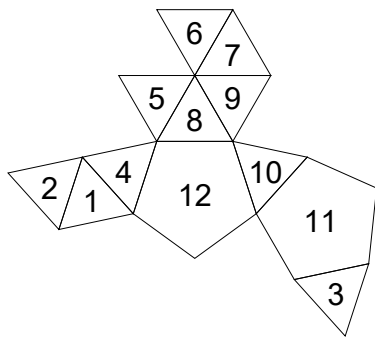
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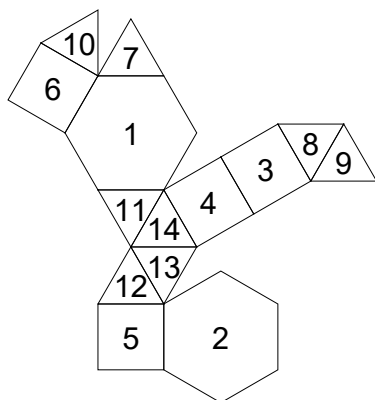
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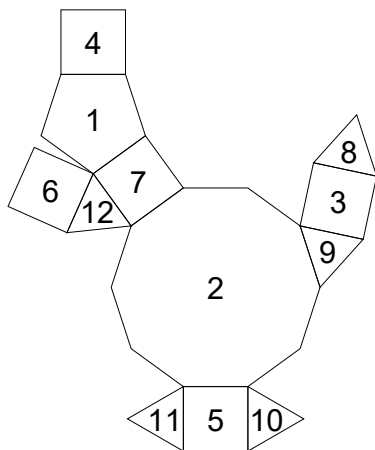
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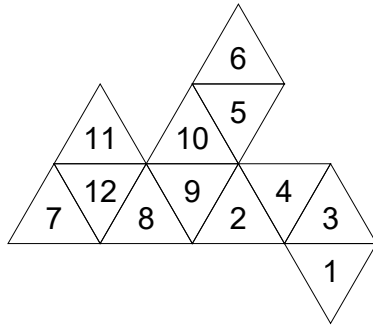
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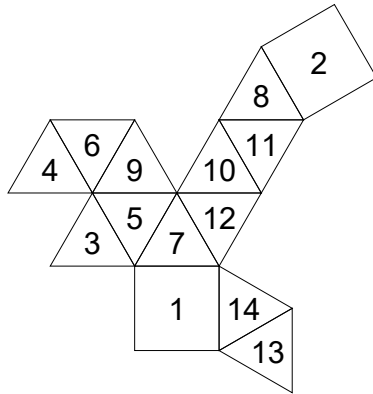
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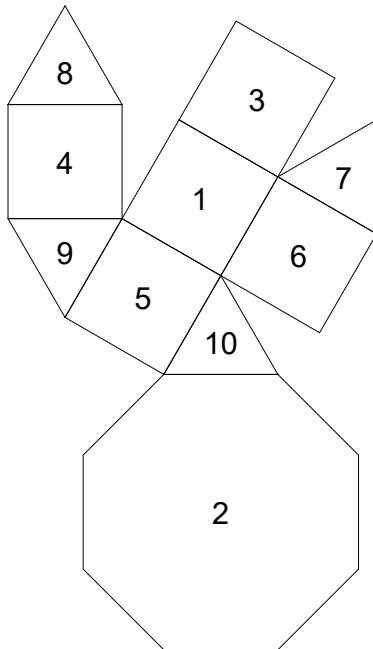
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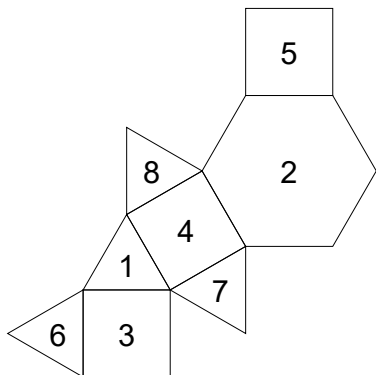
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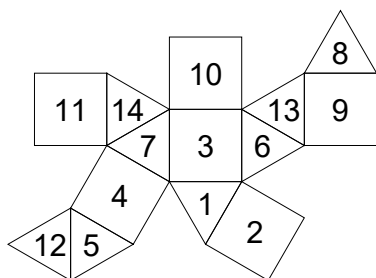
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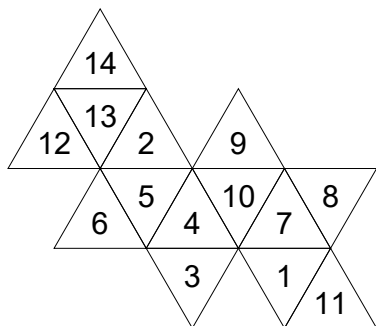
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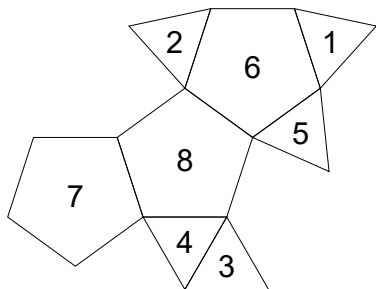
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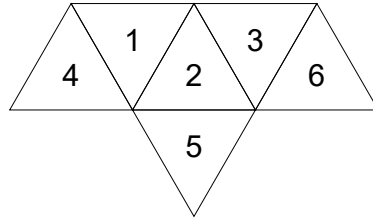
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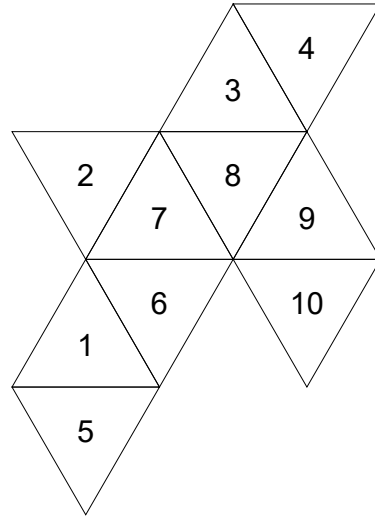
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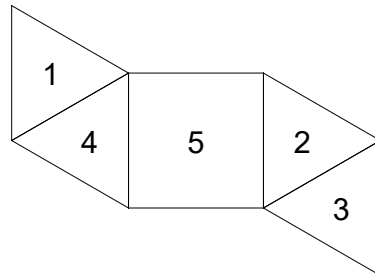
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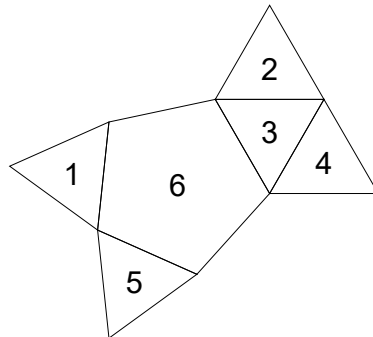
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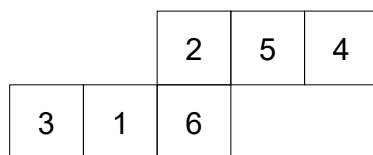
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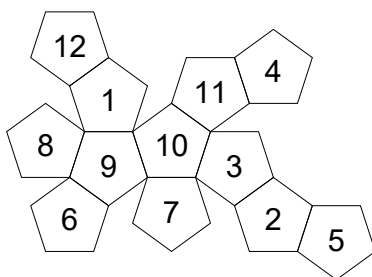
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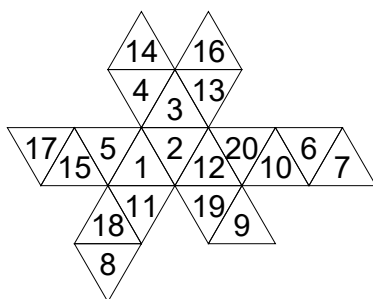
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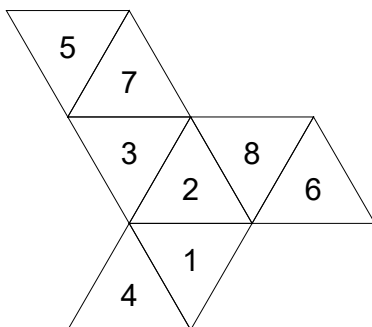
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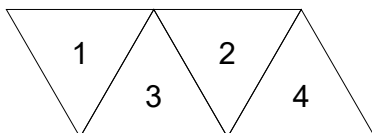
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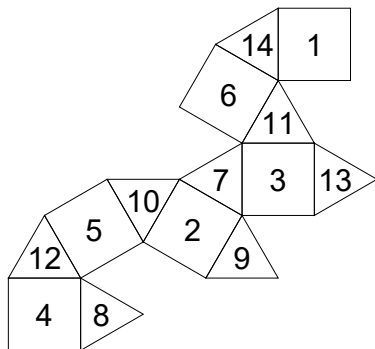
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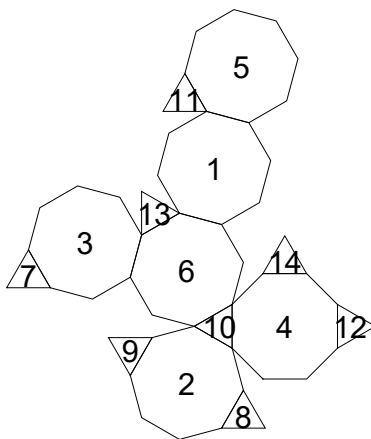
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8	{2, 4, 5}
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6



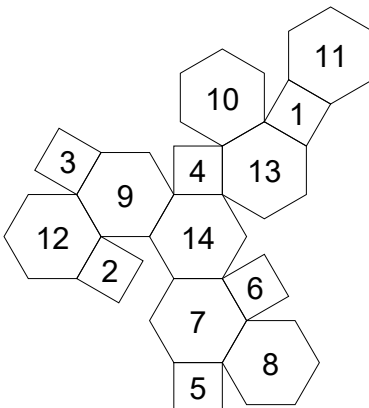
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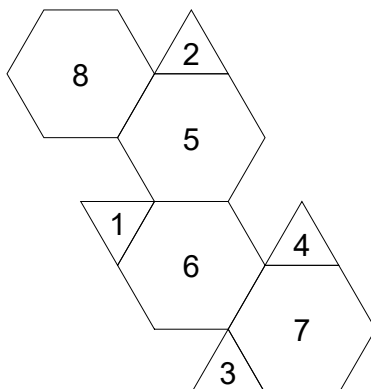
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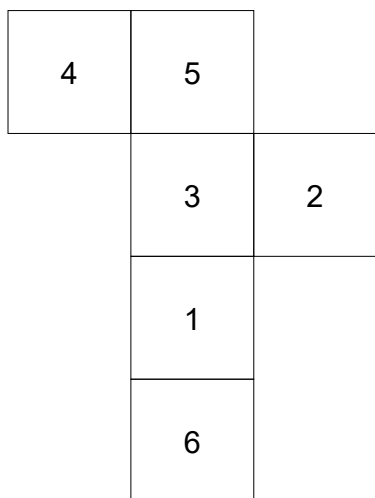
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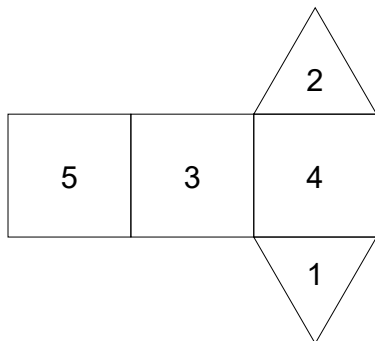
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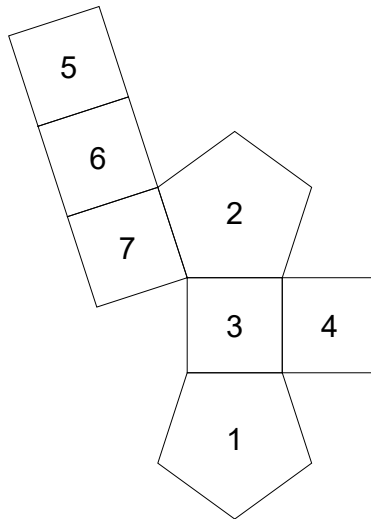
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4	{1, 2, 3, 5}
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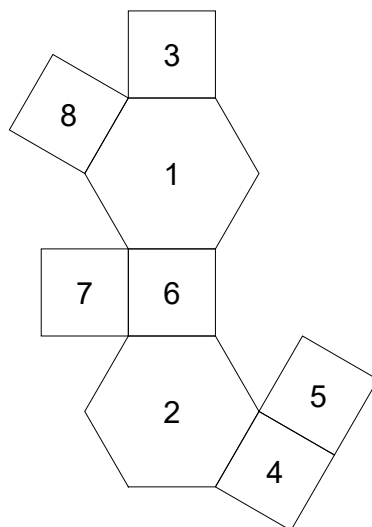
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6	{1, 2, 5, 7}
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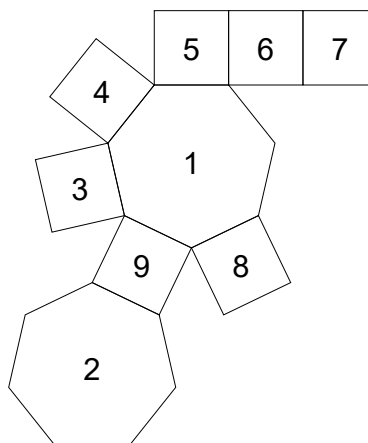
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8	{1, 2, 3, 7}



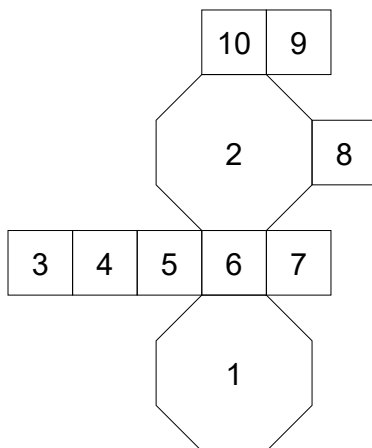
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8	{1, 2, 7, 9}
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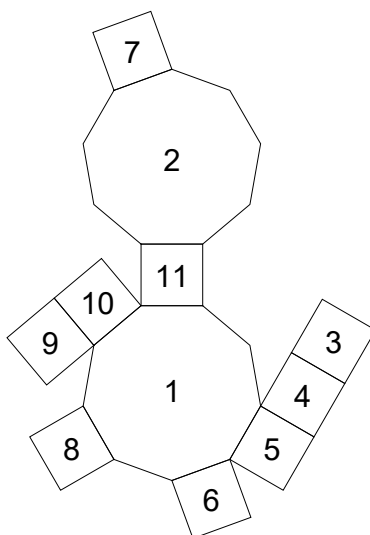
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5	{1, 2, 4, 6}
6	{1, 2, 5, 7}
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9	{1, 2, 8, 10}
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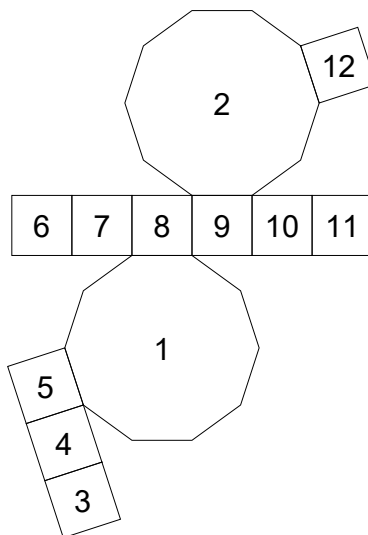
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7	{1, 2, 6, 8}
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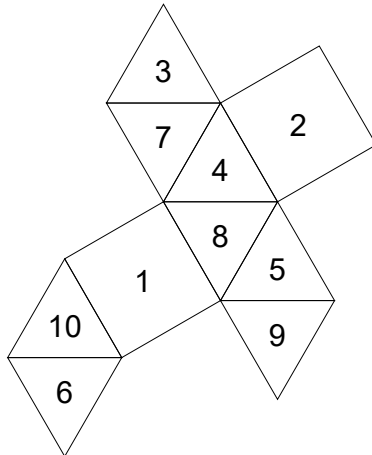
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6	{1, 2, 5, 7}
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11	{1, 2, 10, 12}
12	{1, 2, 3, 11}



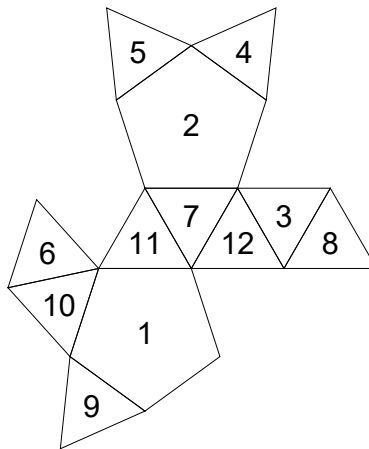
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8	{1, 4, 5}
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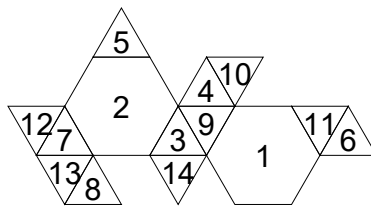
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7	{2, 11, 12}
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11	{1, 6, 7}
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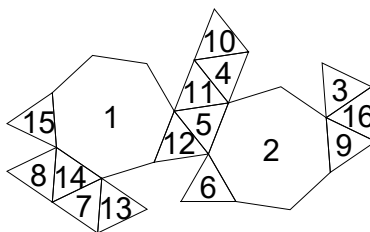
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12	{1, 6, 7}
13	{1, 7, 8}
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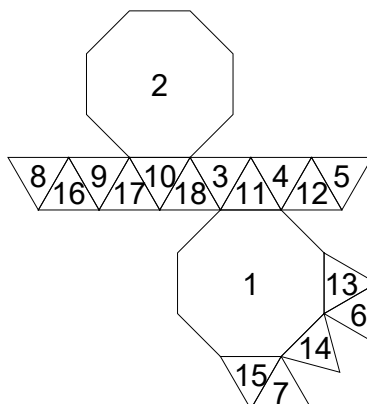
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7	{2, 13, 14}
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11	{1, 4, 5}
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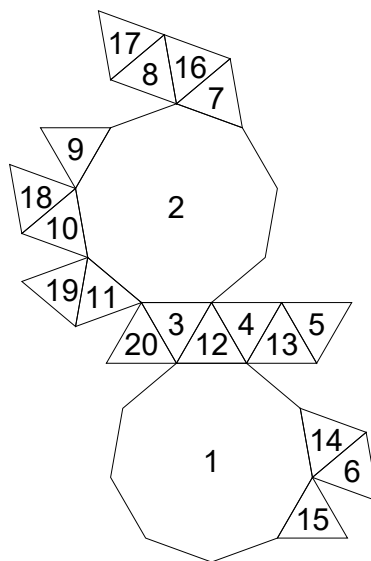
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7	{2, 14, 15}
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17	{1, 9, 10}
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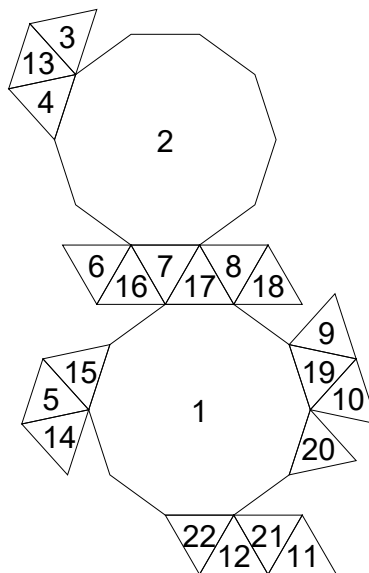
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19	{1, 10, 11}
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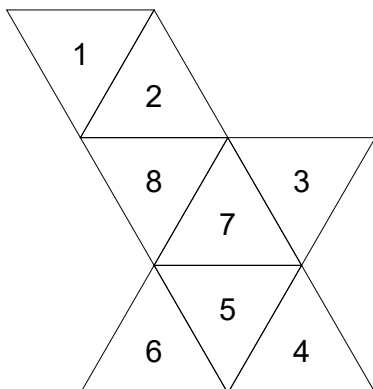
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9	{2, 18, 19}
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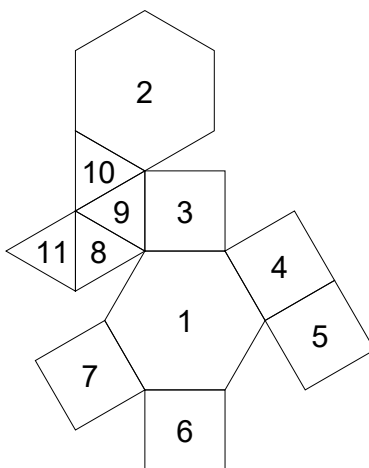
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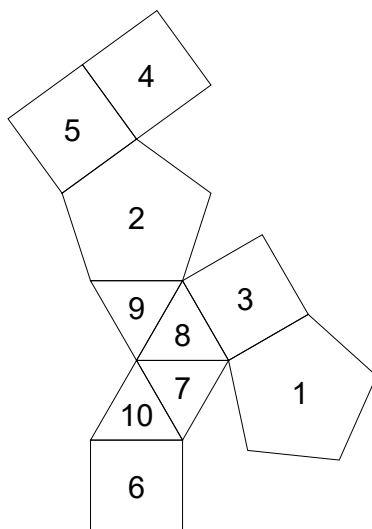
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6	{1, 2, 5, 7}
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9	{3, 8, 10}
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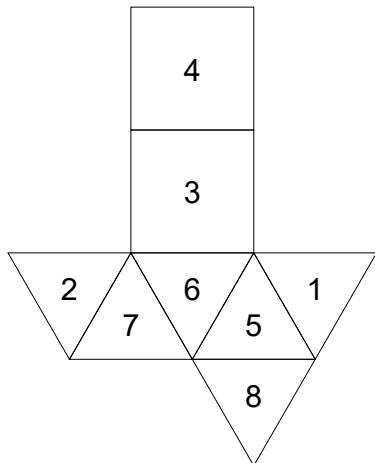
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8	{3, 7, 9}
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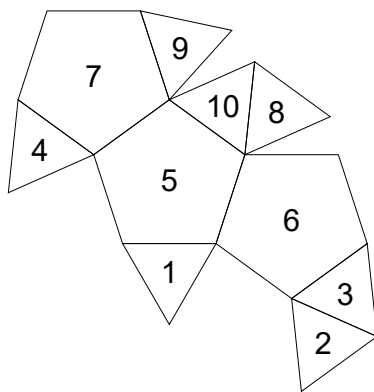
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7	{2, 6, 8}
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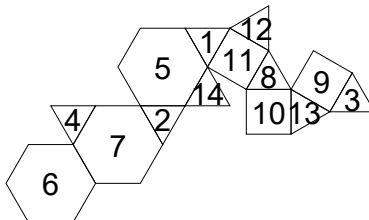
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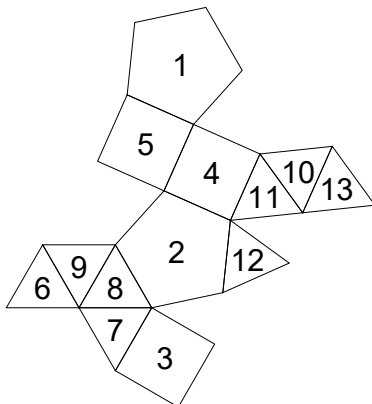
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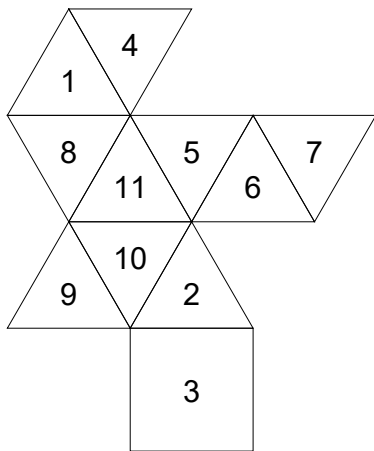
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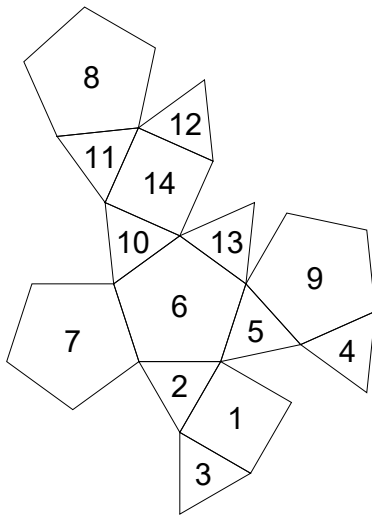
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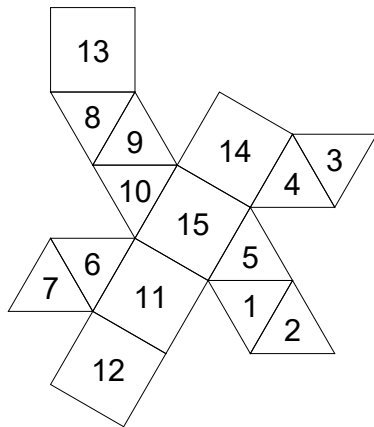
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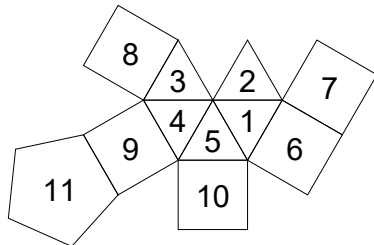
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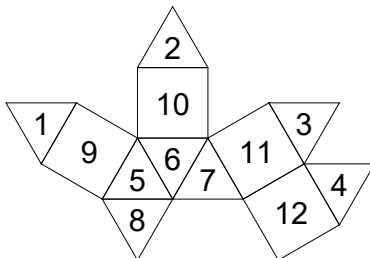
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9	{4, 8, 10, 11}
10	{5, 6, 9, 11}
11	{6, 7, 8, 9, 10}



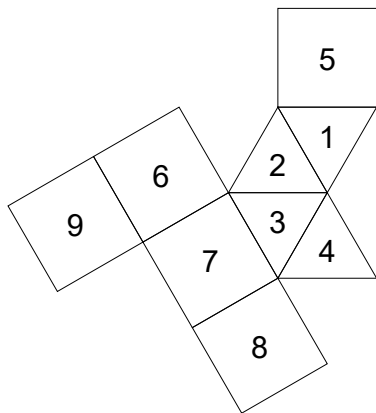
36

1	{2, 4, 9}
2	{1, 3, 10}
3	{2, 4, 11}
4	{1, 3, 12}
5	{6, 8, 9}
6	{5, 7, 10}
7	{6, 8, 11}
8	{5, 7, 12}
9	{1, 5, 10, 12}
10	{2, 6, 9, 11}
11	{3, 7, 10, 12}
12	{4, 8, 9, 11}



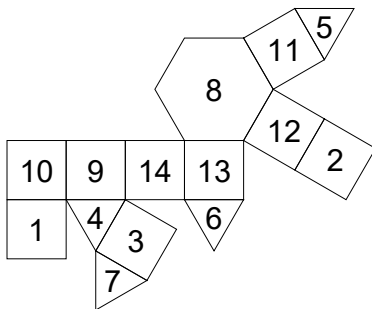
37

1	{2, 4, 5}
2	{1, 3, 6}
3	{2, 4, 7}
4	{1, 3, 8}
5	{1, 6, 8, 9}
6	{2, 5, 7, 9}
7	{3, 6, 8, 9}
8	{4, 5, 7, 9}
9	{5, 6, 7, 8}



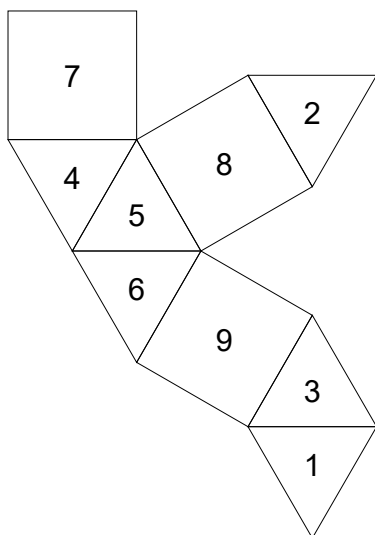
38

1	{4, 5, 7, 10}
2	{5, 6, 7, 12}
3	{4, 6, 7, 14}
4	{1, 3, 9}
5	{1, 2, 11}
6	{2, 3, 13}
7	{1, 2, 3}
8	{9, 10, 11, 12, 13, 14}
9	{4, 8, 10, 14}
10	{1, 8, 9, 11}
11	{5, 8, 10, 12}
12	{2, 8, 11, 13}
13	{6, 8, 12, 14}
14	{3, 8, 9, 13}



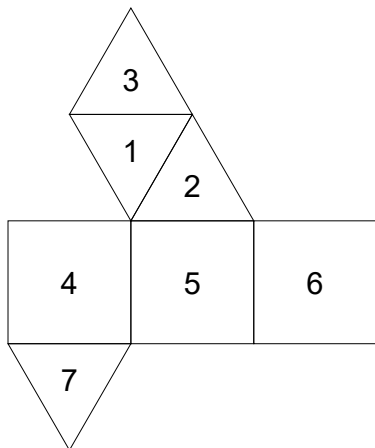
39

1	{2, 3, 7}
2	{1, 3, 8}
3	{1, 2, 9}
4	{5, 6, 7}
5	{4, 6, 8}
6	{4, 5, 9}
7	{1, 4, 8, 9}
8	{2, 5, 7, 9}
9	{3, 6, 7, 8}



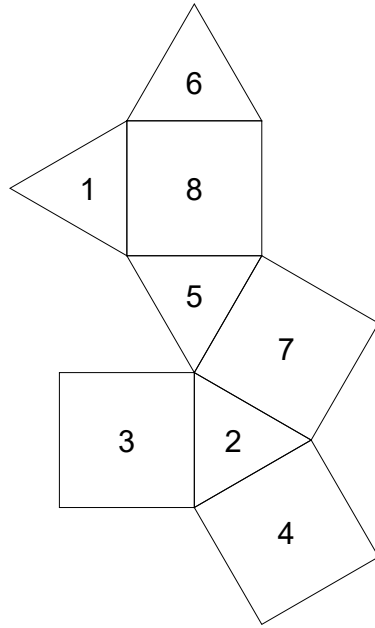
40

1	{2, 3, 4}
2	{1, 3, 5}
3	{1, 2, 6}
4	{1, 5, 6, 7}
5	{2, 4, 6, 7}
6	{3, 4, 5, 7}
7	{4, 5, 6}



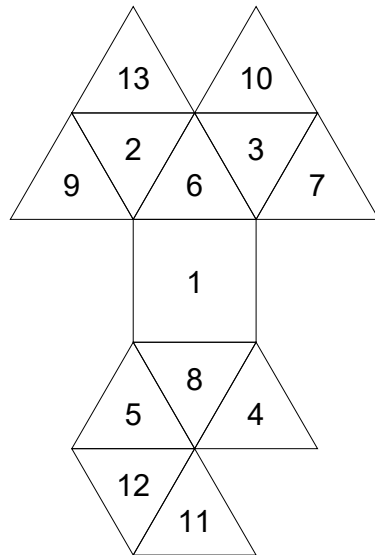
41

1	{3, 4, 8}
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3	{1, 2, 4, 5}
4	{1, 2, 3, 6}
5	{3, 7, 8}
6	{4, 7, 8}
7	{2, 5, 6, 8}
8	{1, 5, 6, 7}



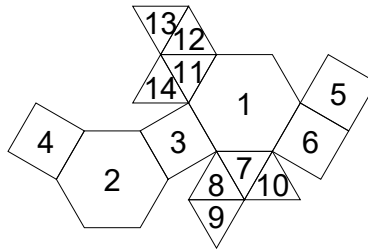
42

1	{6, 7, 8, 9}
2	{6, 9, 13}
3	{6, 7, 10}
4	{7, 8, 11}
5	{8, 9, 12}
6	{1, 2, 3}
7	{1, 3, 4}
8	{1, 4, 5}
9	{1, 2, 5}
10	{3, 11, 13}
11	{4, 10, 12}
12	{5, 11, 13}
13	{2, 10, 12}



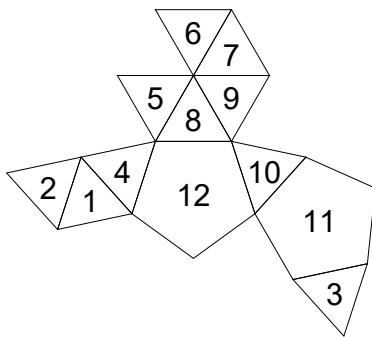
43

1	{3, 4, 5, 6, 7, 11}
2	{3, 4, 5, 6, 9, 13}
3	{1, 2, 8, 14}
4	{1, 2, 5, 12}
5	{1, 2, 4, 6}
6	{1, 2, 5, 10}
7	{1, 8, 10}
8	{3, 7, 9}
9	{2, 8, 10}
10	{6, 7, 9}
11	{1, 12, 14}
12	{4, 11, 13}
13	{2, 12, 14}
14	{3, 11, 13}



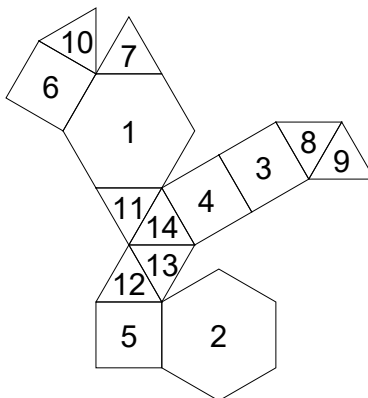
44

1	{2, 3, 4}
2	{1, 6, 11}
3	{1, 11, 12}
4	{1, 5, 12}
5	{4, 6, 8}
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11	{2, 3, 7, 10, 12}
12	{3, 4, 8, 10, 11}



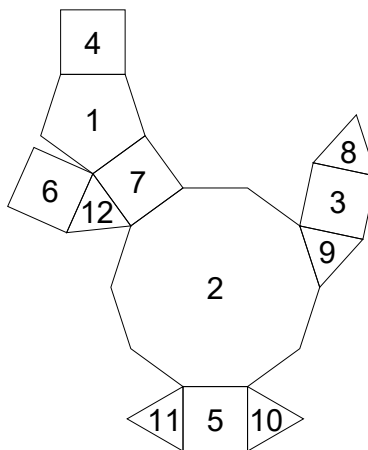
45

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2	{3, 4, 5, 6, 9, 13}
3	{1, 2, 4, 8}
4	{1, 2, 3, 14}
5	{1, 2, 6, 12}
6	{1, 2, 5, 10}
7	{1, 8, 10}
8	{3, 7, 9}
9	{2, 8, 10}
10	{6, 7, 9}
11	{1, 12, 14}
12	{5, 11, 13}
13	{2, 12, 14}
14	{4, 11, 13}



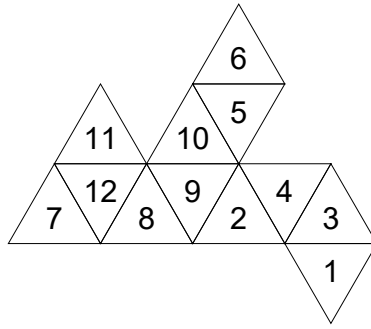
46

1	{3, 4, 5, 6, 7}
2	{3, 4, 5, 6, 7, 8, 9, 10, 11, 12}
3	{1, 2, 8, 9}
4	{1, 2, 9, 10}
5	{1, 2, 10, 11}
6	{1, 2, 11, 12}
7	{1, 2, 8, 12}
8	{2, 3, 7}
9	{2, 3, 4}
10	{2, 4, 5}
11	{2, 5, 6}
12	{2, 6, 7}



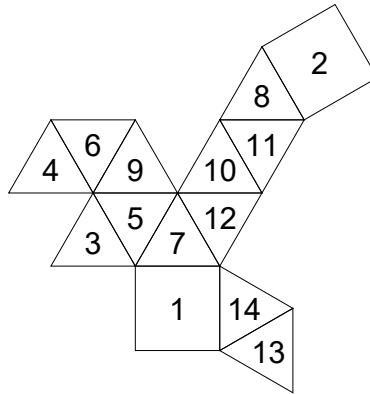
47

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3	{1, 4, 7}
4	{2, 3, 5}
5	{4, 6, 10}
6	{5, 7, 11}
7	{3, 6, 12}
8	{1, 9, 12}
9	{2, 8, 10}
10	{5, 9, 11}
11	{6, 10, 12}
12	{7, 8, 11}



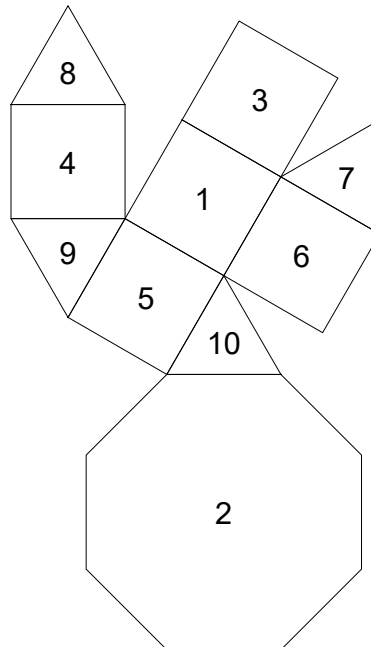
48

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3	{1, 4, 5}
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5	{3, 7, 9}
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7	{1, 5, 12}
8	{2, 6, 11}
9	{5, 6, 10}
10	{9, 11, 12}
11	{8, 10, 13}
12	{7, 10, 14}
13	{2, 11, 14}
14	{1, 12, 13}



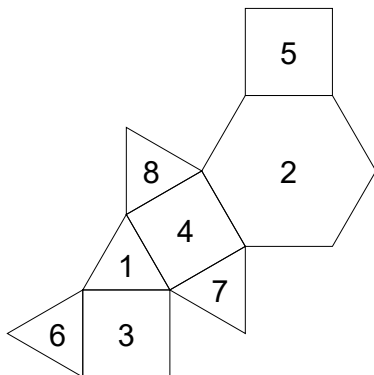
49

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2	{3, 4, 5, 6, 7, 8, 9, 10}
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4	{1, 2, 8, 9}
5	{1, 2, 9, 10}
6	{1, 2, 7, 10}
7	{2, 3, 6}
8	{2, 3, 4}
9	{2, 4, 5}
10	{2, 5, 6}



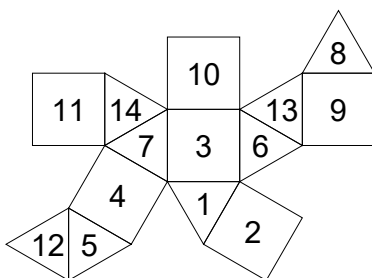
50

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2	{3, 4, 5, 6, 7, 8}
3	{1, 2, 6, 7}
4	{1, 2, 7, 8}
5	{1, 2, 6, 8}
6	{2, 3, 5}
7	{2, 3, 4}
8	{2, 4, 5}



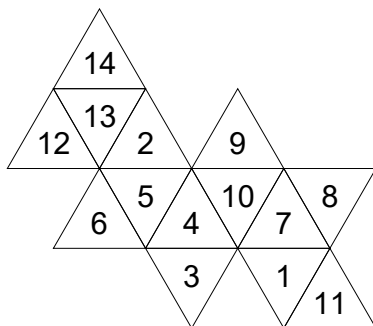
51

1	{2, 3, 4}
2	{1, 5, 6, 9}
3	{1, 6, 7, 10}
4	{1, 5, 7, 11}
5	{2, 4, 12}
6	{2, 3, 13}
7	{3, 4, 14}
8	{9, 10, 11}
9	{2, 8, 12, 13}
10	{3, 8, 13, 14}
11	{4, 8, 12, 14}
12	{5, 9, 11}
13	{6, 9, 10}
14	{7, 10, 11}



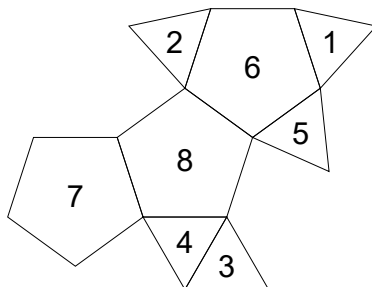
52

1	{3, 7, 11}
2	{5, 9, 13}
3	{1, 4, 6}
4	{3, 5, 10}
5	{2, 4, 6}
6	{3, 5, 12}
7	{1, 8, 10}
8	{7, 9, 14}
9	{2, 8, 10}
10	{4, 7, 9}
11	{1, 12, 14}
12	{6, 11, 13}
13	{2, 12, 14}
14	{8, 11, 13}



53

1	{3, 6, 7}
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3	{1, 4, 5}
4	{3, 7, 8}
5	{3, 6, 8}
6	{1, 2, 5, 7, 8}
7	{1, 2, 4, 6, 8}
8	{2, 4, 5, 6, 7}



54

1	{2, 3, 4}
2	{1, 3, 5}
3	{1, 2, 6}
4	{1, 5, 6}
5	{2, 4, 6}
6	{3, 4, 5}

55

1	{2, 5, 6}
2	{1, 3, 7}
3	{2, 4, 8}
4	{3, 5, 9}
5	{1, 4, 10}
6	{1, 7, 10}
7	{2, 6, 8}
8	{3, 7, 9}
9	{4, 8, 10}
10	{5, 6, 9}

56

1	{2, 4, 5}
2	{1, 3, 5}
3	{2, 4, 5}
4	{1, 3, 5}
5	{1, 2, 3, 4}

57

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2	{1, 3, 6}
3	{2, 4, 6}
4	{3, 5, 6}
5	{1, 4, 6}
6	{1, 2, 3, 4, 5}

Referenca:

Izidor Hafner

"Find the Opposite Face"

[http://demonstrations.wolfram.com/FindTheOppositeFace/Wolfram Demonstrations Project](http://demonstrations.wolfram.com/FindTheOppositeFace/Wolfram%20Demonstrations%20Project)

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