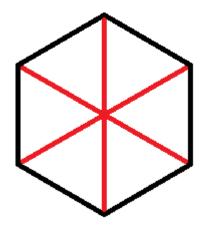
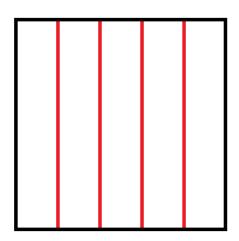
Team Name: _____ Team ID: _____

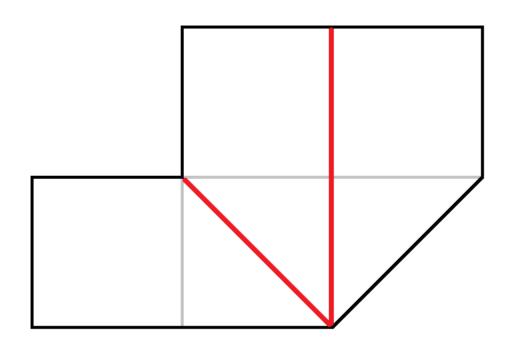
1 Cut A Part

- 1. [3 points] Cut this regular hexagon into **6** congruent pieces.
- 2. [5 points] Cut this square into 5 congruent pieces.

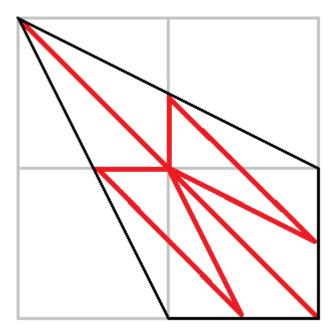




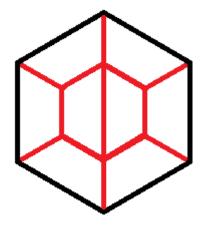
3. [5 points] Cut this object into 3 congruent pieces. Grid lines have been drawn for you.



4. [7 points] Cut this quadrilateral into 8 congruent pieces. Grid lines have been drawn for you.



5. [10 points] Cut this regular hexagon into 8 congruent pieces.



2 Separators

1. [6 points]

1		0	0	1	1
	2	0	0	1	1
1	1	1	2	1	2
2	0	1	2	2	1
0	2	2	1	1	2
1	1	2	1	2	1

2. [8 points]

1			0	0	1	0	4	3
	2		4	0	2	3	2	1
		3	2	0	3	1	0	2
0	2	0	2	3	3	2	1	1
0	0	0	თ	თ	1	1	2	2
2	0	0	1	2	2	1	3	w
1	3	0	1	2	1	3	3	2
3	0	1	3	1	3	2	2	1
2	1	1	2	1	2	3	1	3

3. [12 points]

1			3	0	3	0	3	3
	2		1	3	0	0	3	1
		3	2	3	3	0	0	0
3	3	0	1	2	3	3	1	2
2	3	1	2	3	1	3	2	1
1	2	3	თ	1	2	1	3	2
1	1	0	2	1	2	1	3	3
3	1	2	1	2	3	2	1	3
2	0	0	თ	3	1	2	2	1

4. [16 points] Special rule: The clues specify the sum of the numbers between pairs.

1				8		10		
	2		8					0
		3			5		6	
		1	2	1	3	1	3	2
	5		თ	2	1	3	1	2
		0	თ	3	2	2	1	1
10			1	3	2	3	2	1
		4	1	1	3	2	2	3
	0		2	2	1	1	3	3

5. [18 points] As a reminder, special rules only apply for one problem

1								
	2		1		0	2		
		3	2					
1			თ	3	2	1	2	1
			1	3	2	3	2	1
		0	2	1	1	2	3	3
0		1	ო	2	3	1	1	2
	4		2	1	1	3	3	2
3	1		1	2	3	2	1	3

3 Arrows

1. [5 points]

\rightarrow		2
1	2	\leftarrow

2. [11 points]

	1			
1			1	
	\uparrow			
		2	1	1
				Z

3. [13 points] Special rule: Question 4. [13 points] Special rule: All arrows point marks have at least one arrow pointing to them. Arrows must point to at least one number/question mark.

			$\boxed{\hspace{0.2cm}}$	
\rightarrow	2	?	?	
		1	2	?
\rightarrow	2	?	?	

\rightarrow	_	1	3
2	0	\downarrow	←
		1	0
1	2		\leftarrow

in different directions.

5. [18 points] Note: The special rule from the previous problem does not apply anymore.

