

Team Name: _____

Team ID: _____

BmMT 2019 Puzzle Round

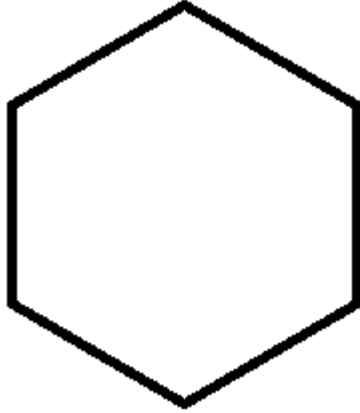
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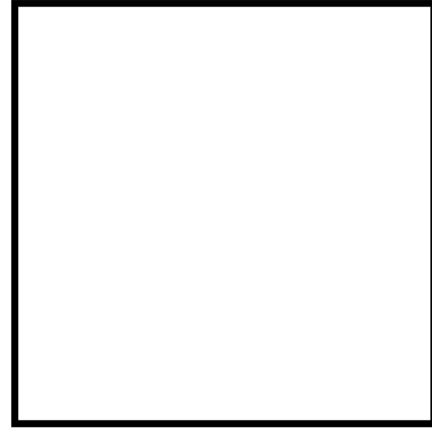
Problem 1	Problem 2	Problem 3
Problem 4	Problem 5	Problem 6
Problem 7	Problem 8	Problem 9
Problem 10	Problem 11	Problem 12
Problem 13	Problem 14	Problem 15

1 Cut A Part

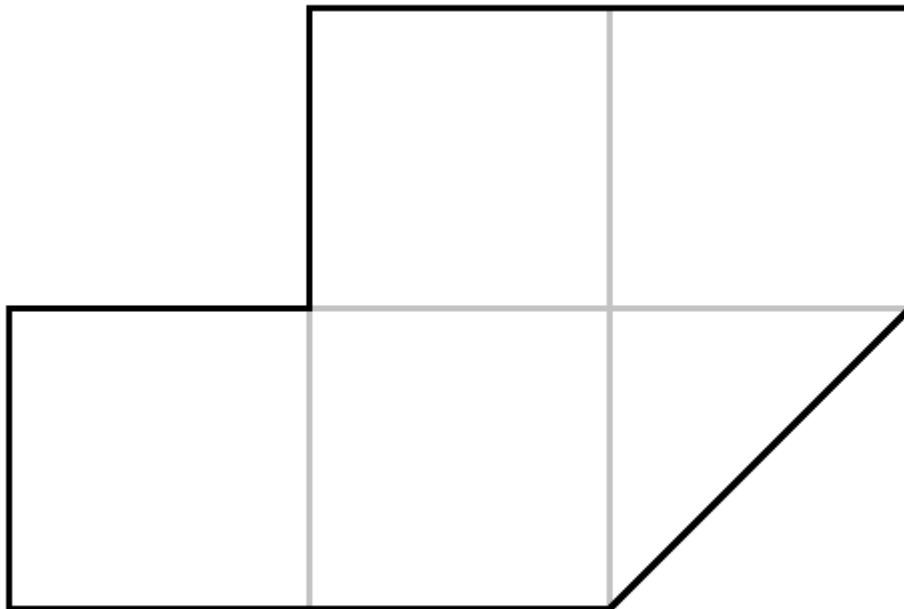
1. [3 points] Cut this regular hexagon into **6** congruent pieces.



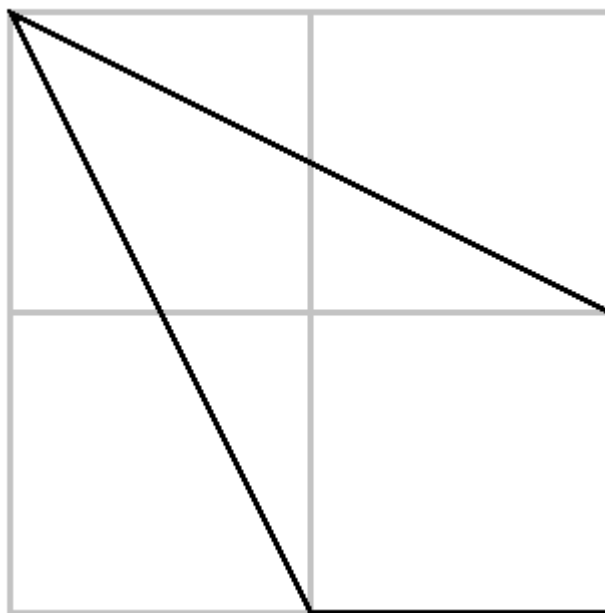
2. [5 points] Cut this square into **5** congruent pieces.



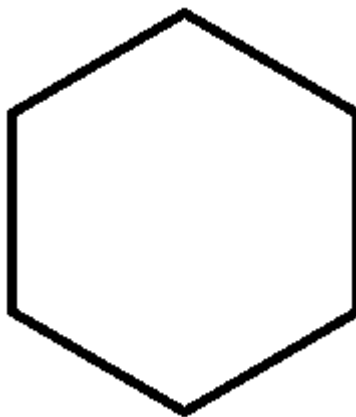
3. [5 points] Cut this object into **3** congruent pieces. Grid lines have been drawn for you.



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

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

4. [16 points] **Special rule:** The numbers to the left and top of the grid indicate the sum of the numbers between pairs of digits.

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

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

1							
	2		1	0	2		
		3	2				
1							
		0					
0		1					
	4						
3	1						

3 Arrows

1. [5 points]

		2
1	2	

2. [11 points]

		1			
1				1	
			2	1	1

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

	2	?	?	
		1	2	?
	2	?	?	

4. [13 points] **Special rule: All arrows point in different directions.**

		1	3
2	0		
		1	0
1	2		

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

	5	3	6	
	3	4	3	
	7	2	4	