March Mathness

TEAM NAME_____

TEAM MEMBERS_____

- THE ELITE EIGHT IS TIMED. YOUR TEAM WILL HAVE FIFTEEN MINUTES.

- YOUR TEAM WILL HAVE ONE CALCULATOR AVAILABLE; NO OTHER ELECTRONIC DEVICES ARE ALLOWED.

- ***DO NOT OPEN TEST BOOKLET UNTIL THE ROUND STARTS!***

- IN THE ELITE EIGHT, IT IS MORE LIKELY YOUR TEAM WON'T BE ABLE TO ANSWER ALL QUESTIONS THOROUGHLY AND/OR CORRECTLY. THIS MEANS IT IS MORE IMPORTANT THAN EVER THAT YOU SUPPORT YOUR ANSWERS WITH EASY-TO-FOLLOW EXPLANATIONS AND SOLUTIONS.

- THE RUBRIC FOR ROUND ONE IS ON THE BACK SIDE OF THIS COVER SHEET.

- WHEN YOUR TEAM IS FINISHED, ***WALK*** YOUR PAPER TO THE SCORING TABLE AND PLACE IT ON THE TOP OF THE STACK IN THE BASKET. (ONE POINT PENALTY MAY BE ASSESSED FOR DISORDERLY CONDUCT.) TIE SCORES WILL BE BROKEN BY ORDER OF TURN IN.

TURN IN ORDER:_____   SCORE:_____

March Mathness

EHS

OUTSTANDING = 3	PROFICIENT = 2	DEVELOPING = 1	NO EVIDENCE = 0

CATEGORY	UNDERSTANDING OF THE PROBLEM	TENDS TO PRECISION	COMMUNICATES CLEARLY	RESOURCEFUL	TOTAL
JUDGE 1	/3	/3	/3	/3	
JUDGE 2	/3	/3	/3	/3	
JUDGE 3	/3	/3	/3	/3	
AVERAGE	/9	/9	/9	/9	/36

Triangulations of a pentagon

NON-triangulations of a pentagon
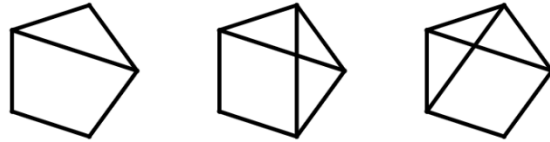
Triangulations of a hexagon

NON-triangulations of a hexagon

(Inspiration: playwithyourmath.com)

[1]   What is a concise definition for **polygon triangulation**?

[2]   What is a concise definition for **polygon NON-triangulation**?

[3]   How many more NON-triangulations of a pentagon are there than triangulations of a pentagon?

[4]   Are there more NON-triangulations of a hexagon than there are triangulations of a hexagon?

[5]   How many triangulations of a heptagon $(n = 7)$ are there?

(FEEL FREE TO USE THIS PAGE FOR EXTRA SCRATCHWORK.)