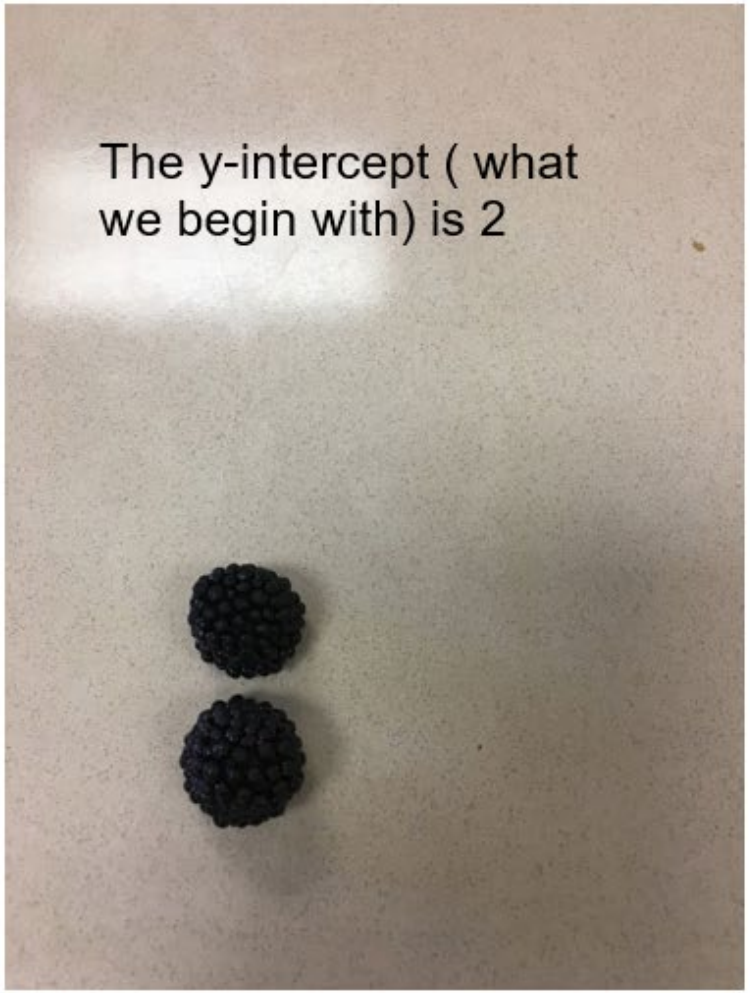
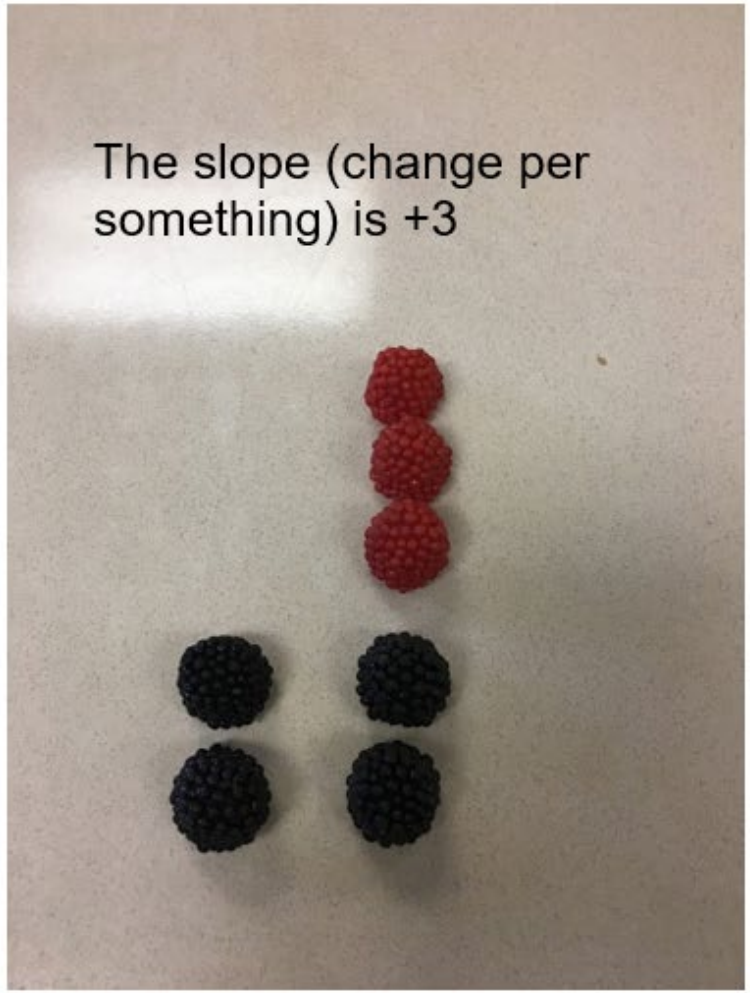
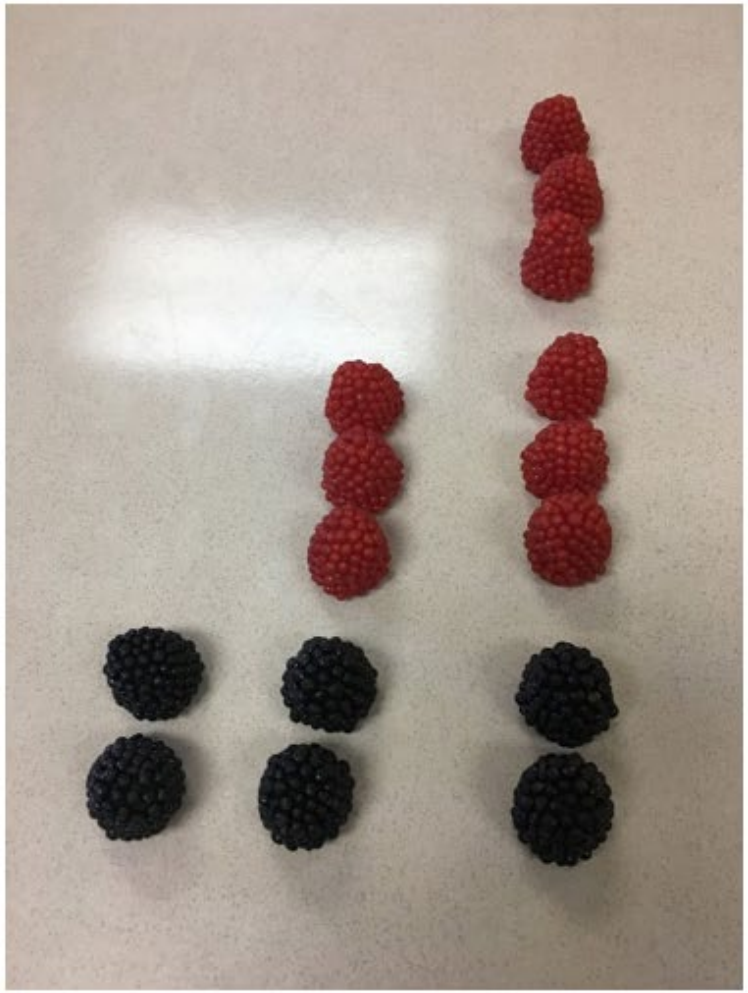
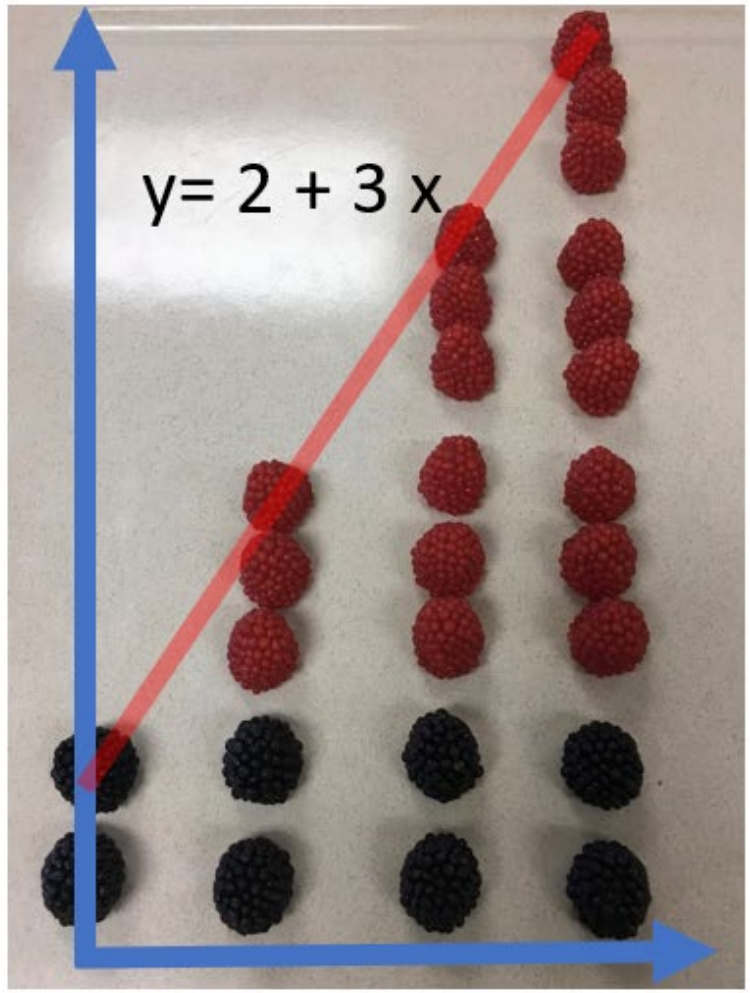
Mathematics is a language.

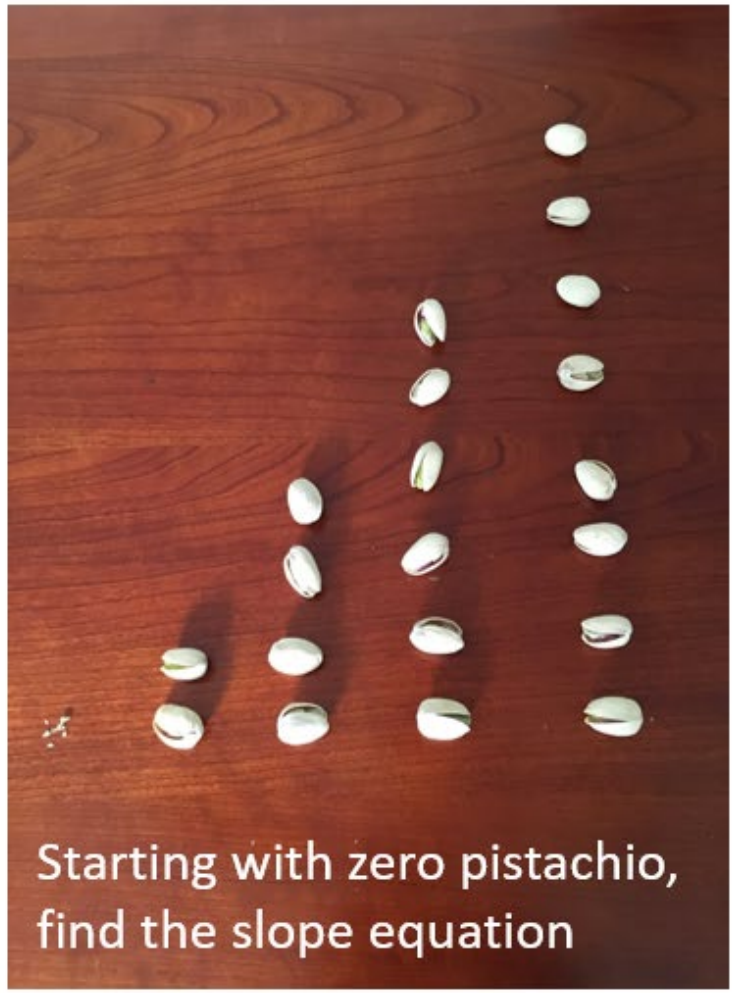
Concept of Positive Slope



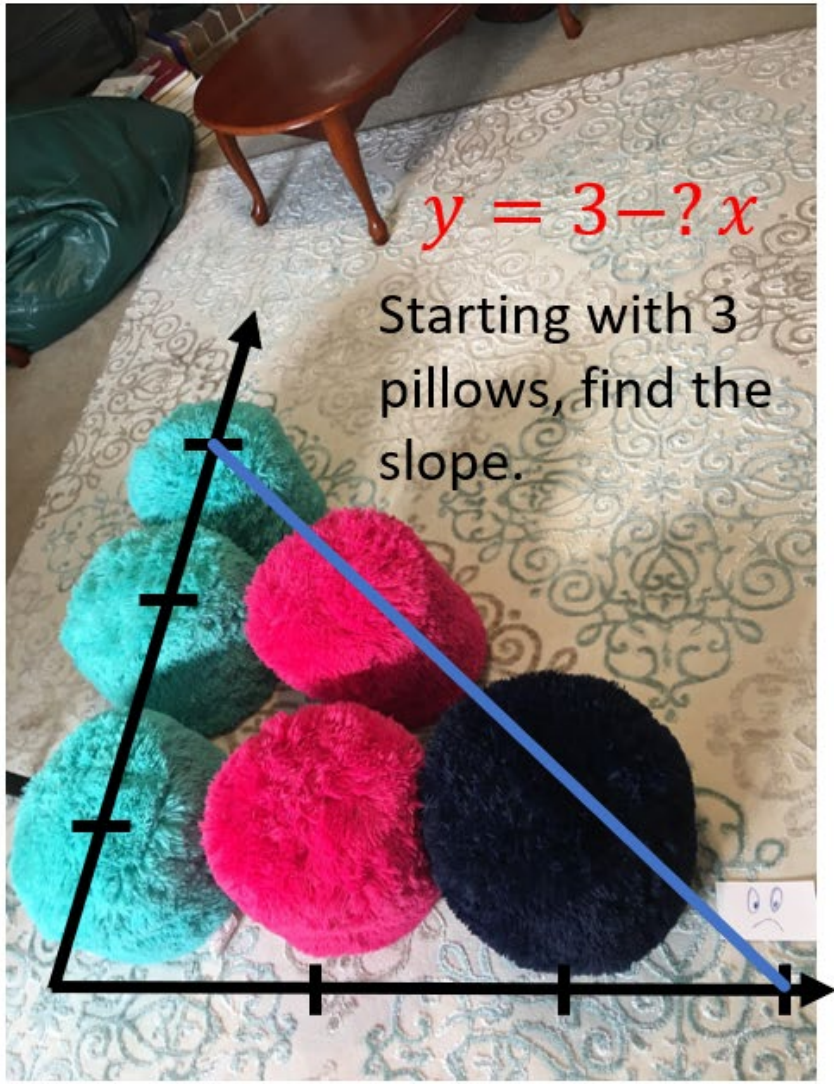




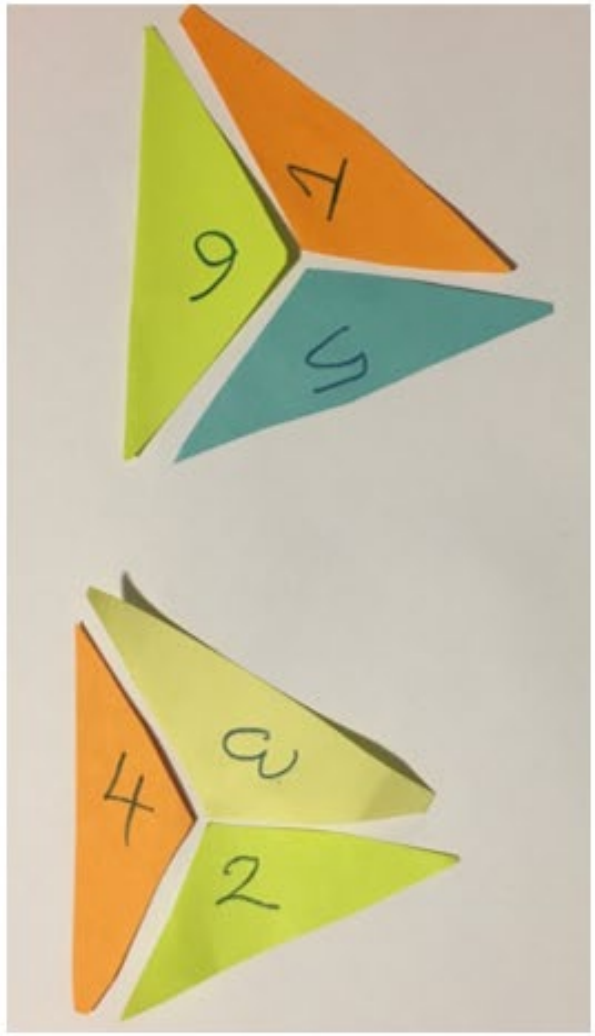

y= 2 + 3 x


Starting with zero pistachio,
find the slope equation

Concept of Negative Slope

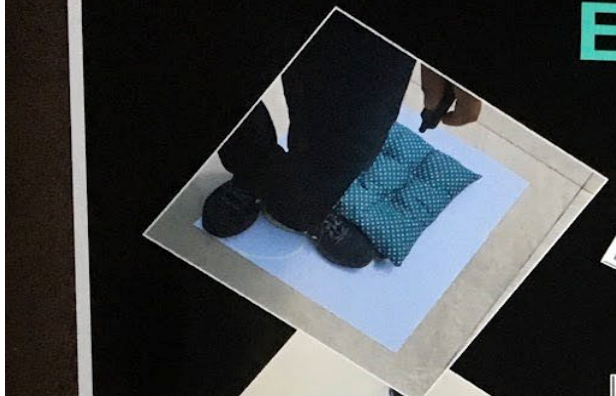


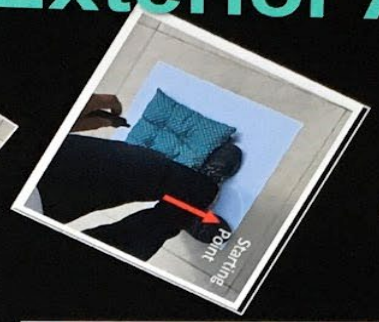
Interior Angels

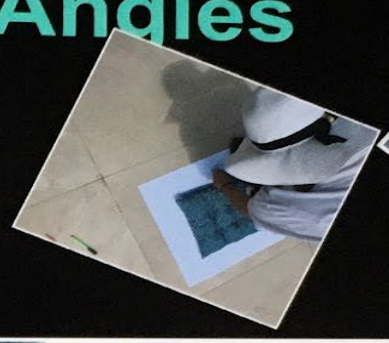


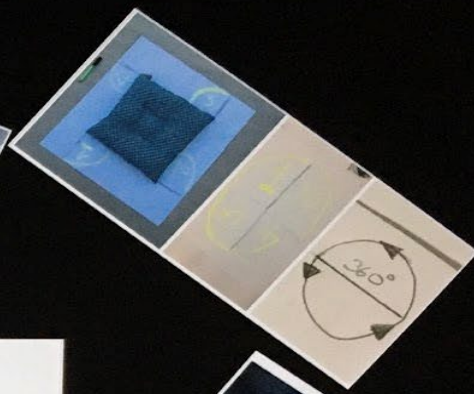
Considering 180 degrees increments for each shape, could you come up with a formula to represent relationships between N -the number of sides, and the sum of the total interior angels?

Exterior Angles

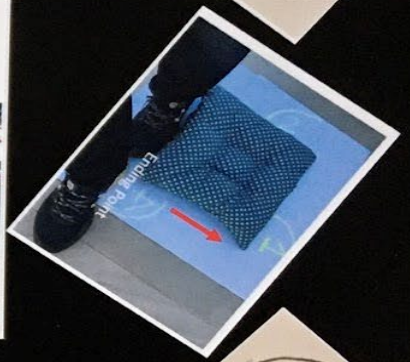


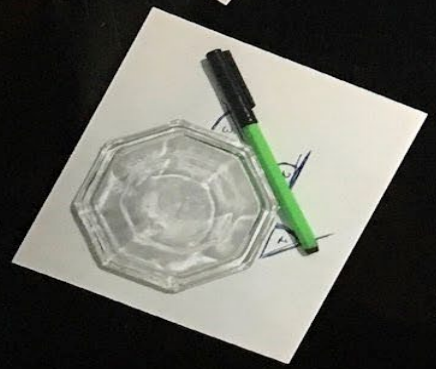


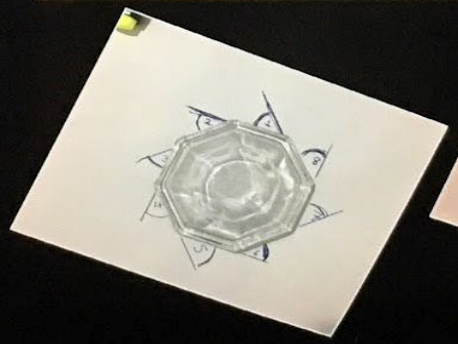


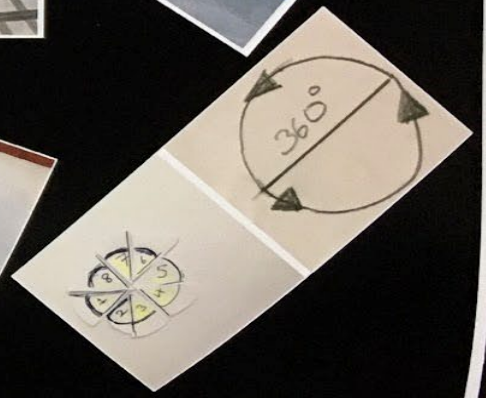


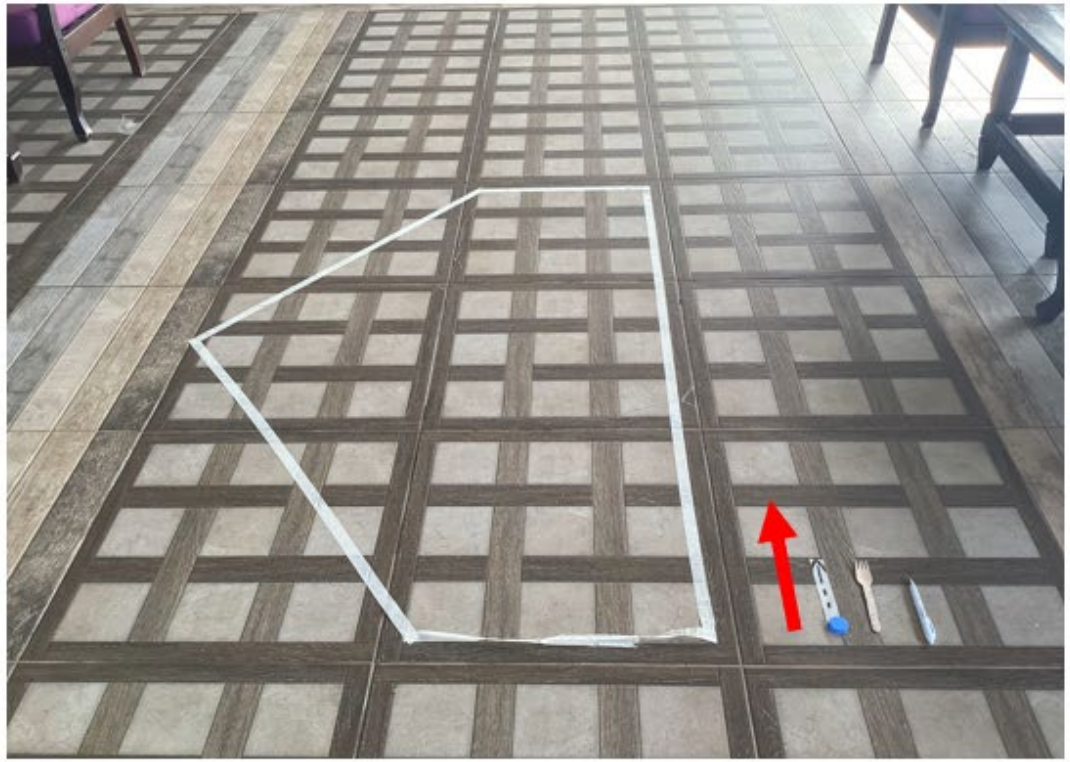
Can you guess the sum of exterior angles of the pentagon?



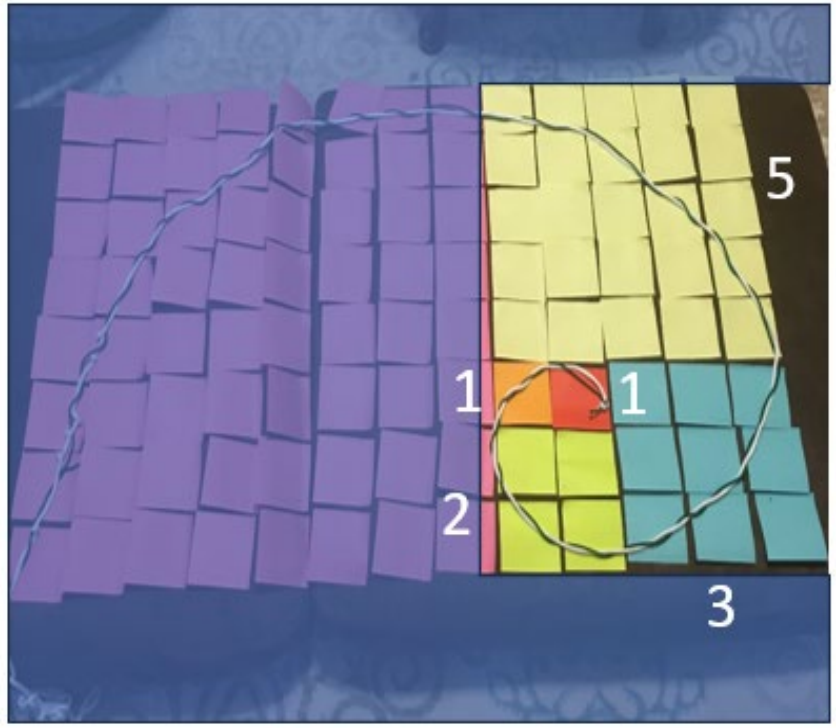


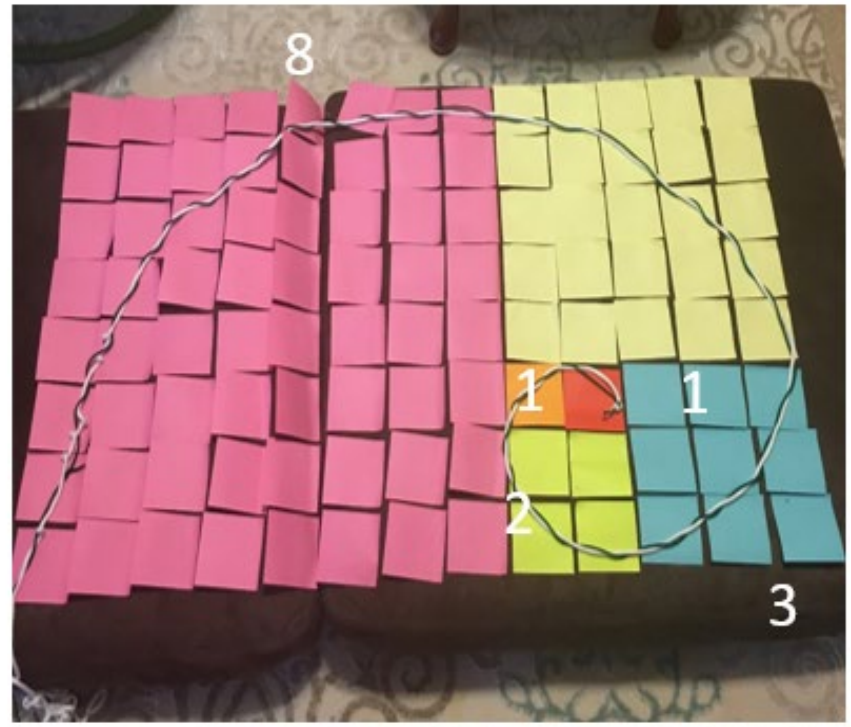




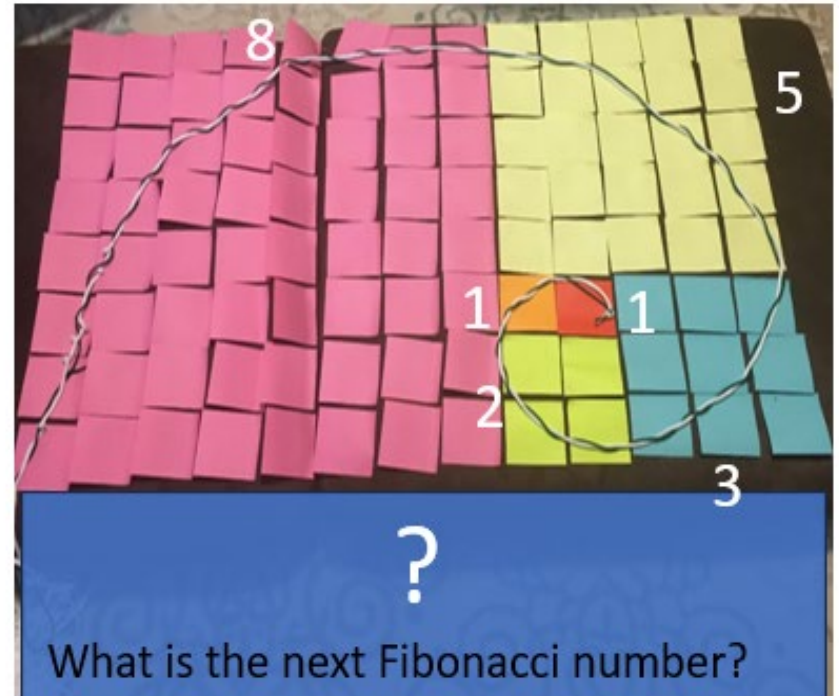


Can you guess the sum of exterior angles of the pentagon?

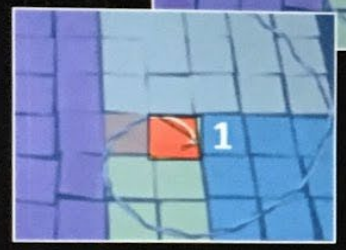

5
1
1
2
3

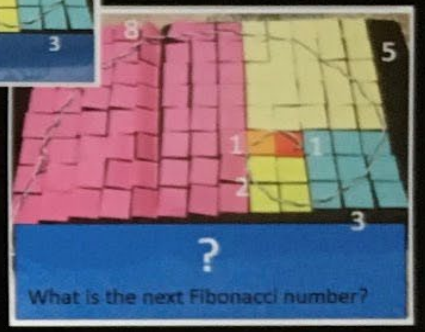

8
1
1
2
3

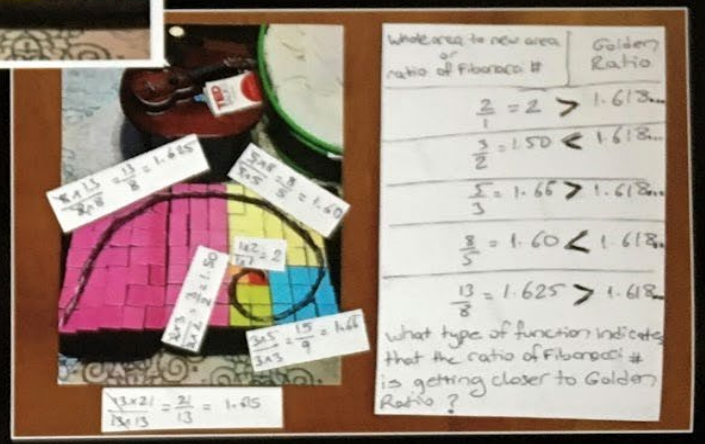

TED


8
5
1
1
2
3
?
What is the next Fibonacci number?

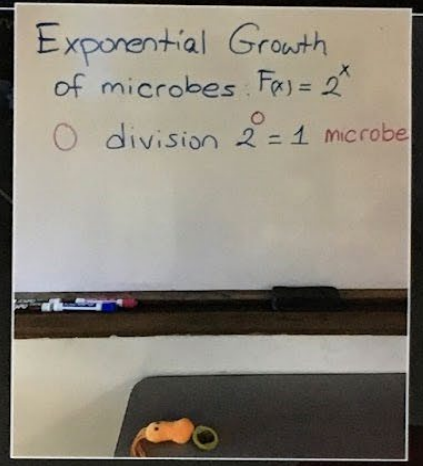
Fibonacci Spiral vs Golden Ratio

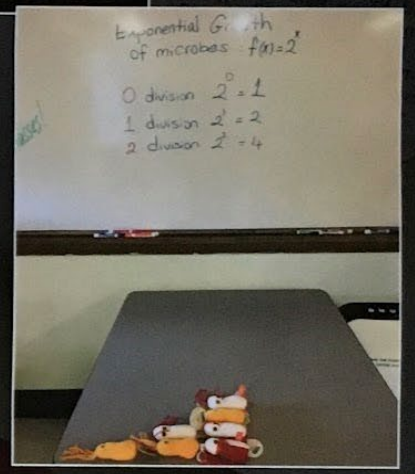


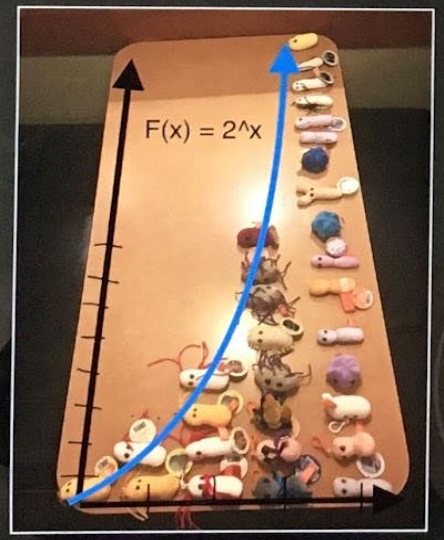


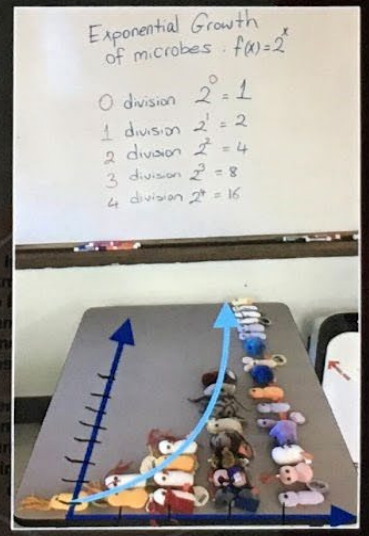


An Exponential Growth Function

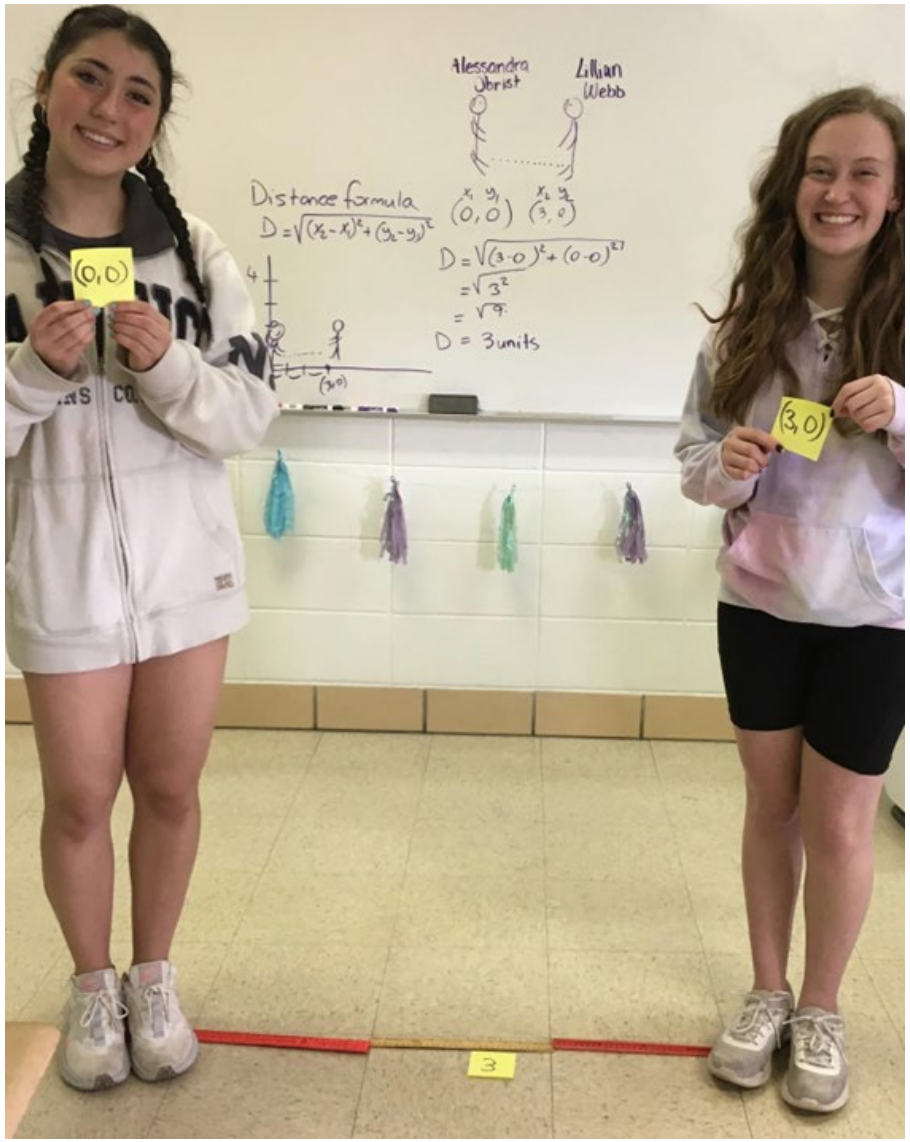


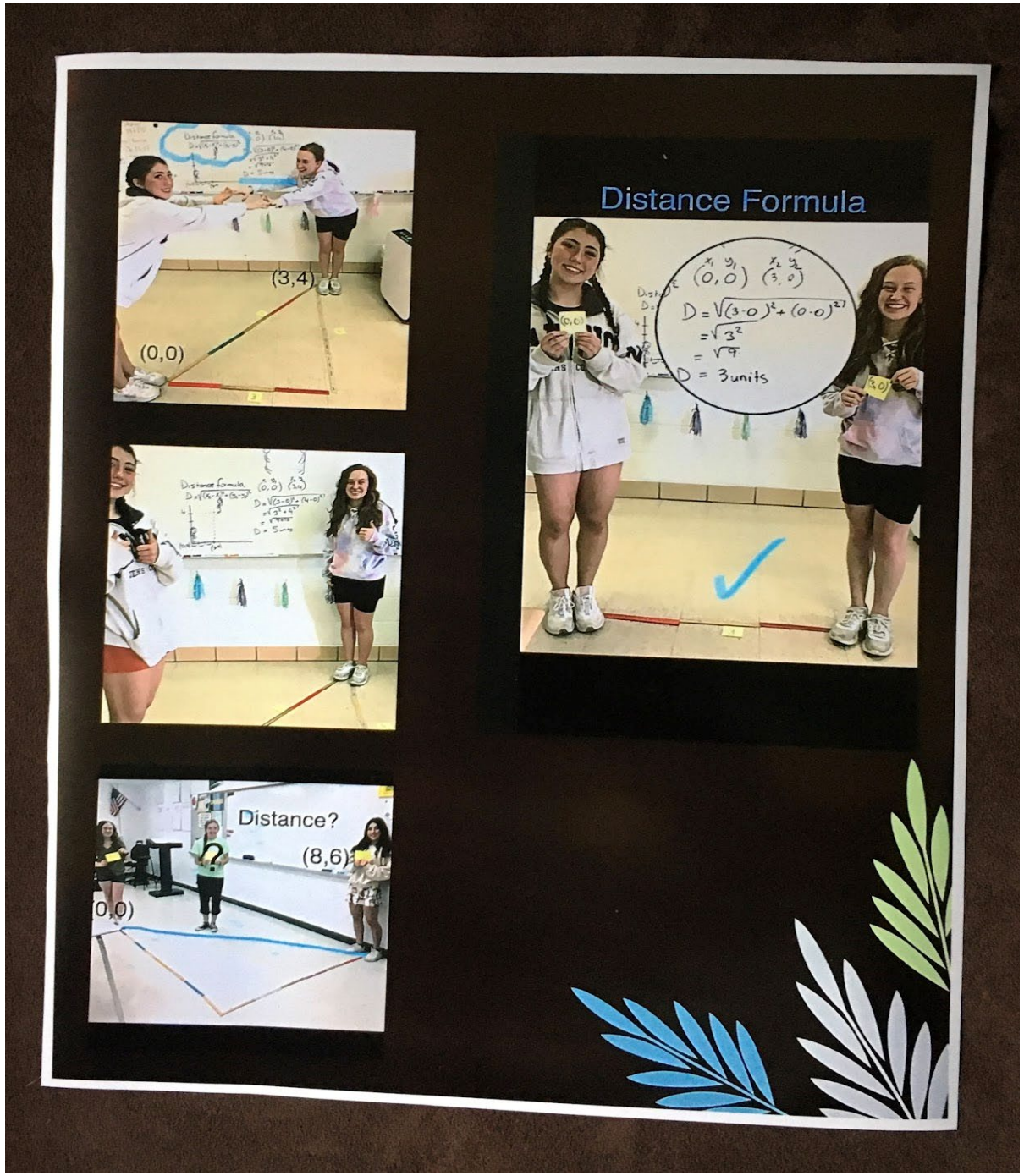






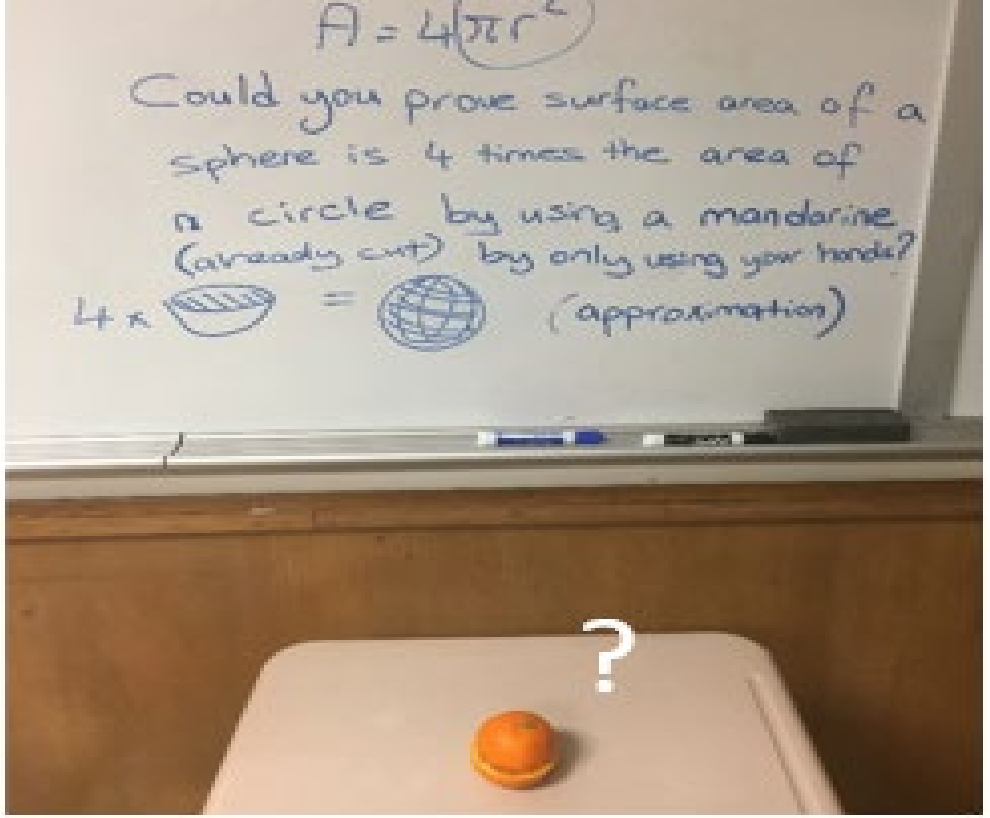
Distance Formula with my math models ☺ -High School Kiddos.

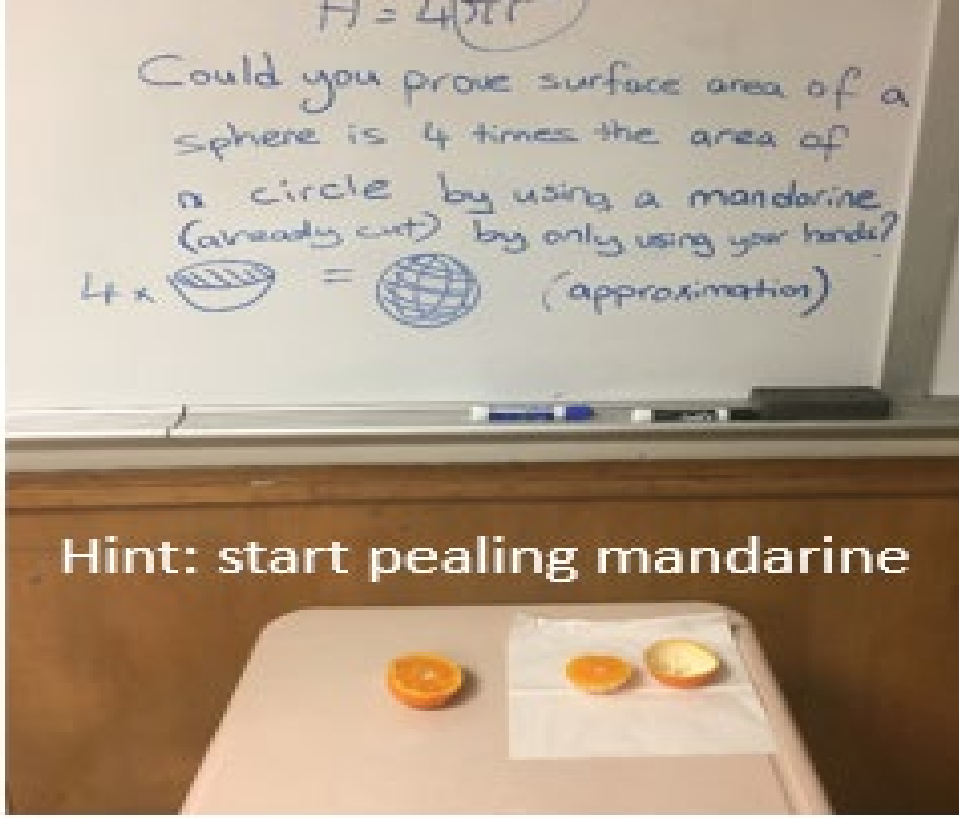



(3,4)
(0,0)
Distance Formula
D = √(3-0)² + (0-0)²
= √3²
= √9
D = 3units
Distance?
(8,6)
0,0)

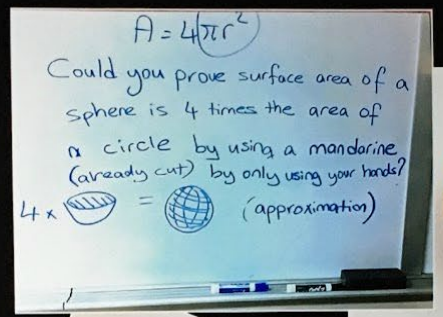

Find the Distance
(0,0)
?
(8,6)

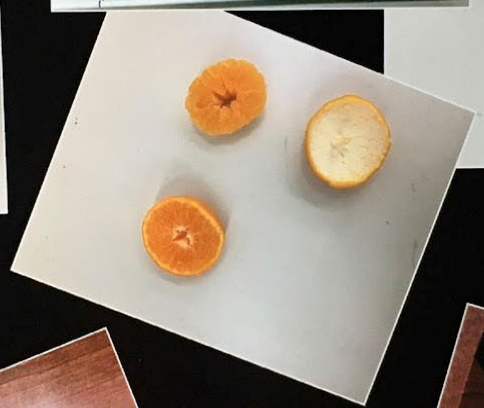

X + 100 = 500 + 200 + 200 + 200
X = ?
EMERGENCY
FIRE
BLANKET
LEVER
30 cm
20 cm
10 cm
10 cm
100
500
200
200
200

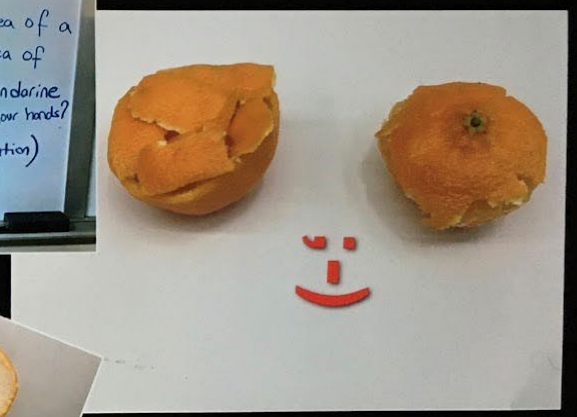

$A = 4\pi r^2$
Could you prove surface area of a sphere is 4 times the area of a circle by using a mandarine (already cut) by only using your hands?
4 x
=
(approximation)
?


$A = 4\pi r^2$
Could you prove surface area of a sphere is 4 times the area of a circle by using a mandarine (already cut) by only using your hands?
4 x
=
(approximation)
Hint: start pealing mandarine

Experimenting with surface area of a sphere







- Greedy Cup, Practical Joke Cup
- Pythagorean cup, Pythagoras of Samos island.