



# Skyscraping

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# Problem

- How can we build the best possible Skyscraper?
- Strand Focus: Aesthetics
- Challenges:
  - Making it Aesthetically pleasing to its location
  - Making sure all sections fit together on top of each other

# Problem Solving Strategies

## That Worked:

### Work

- Asking Mr. Whismore for help
- Giving each other help
- Using the internet for formulas

### Steps we took:

1. Watched skyscraper video
2. Phase 1-A W/S
3. Phase 1-B W/S
4. Write-Up- Part 1
5. Have footprint checked off (on paper)

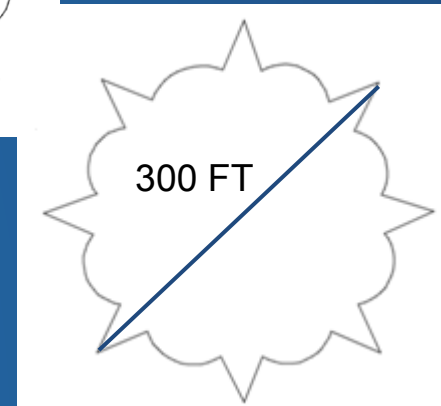
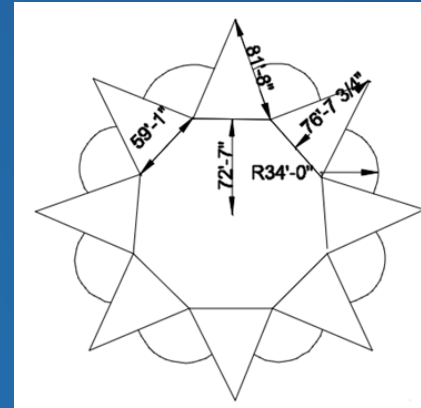
## Things That Didn't

- DGO (didn't really affect what we did that day)

6. Put footprint on Autocad
7. Make footprint the actual size
8. Phase 2-A (writing down measurements)
9. Phase 3- calculations

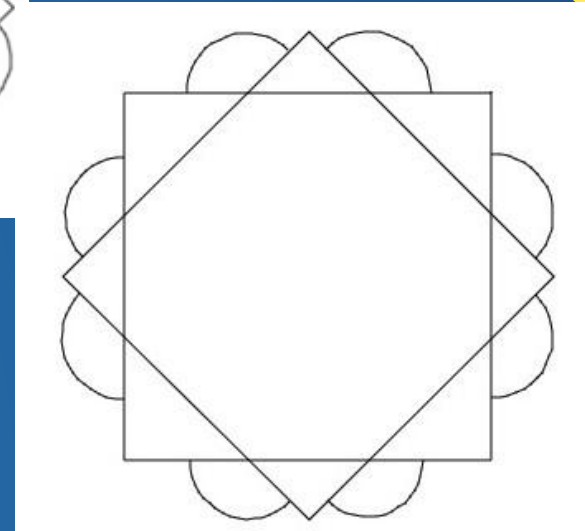
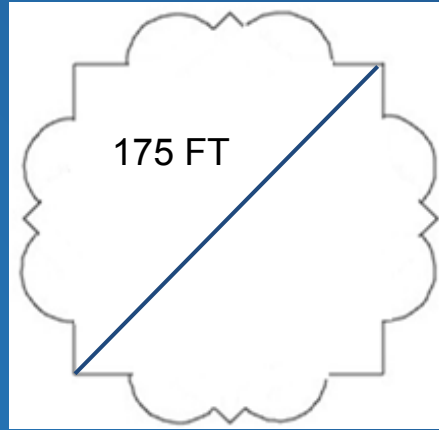
# 2-D Footprints- 1<sup>st</sup> level

- Shapes used:  
Octagon, Triangle &  
Circles
- Total Width: 300 FT
- Number Of Floors In  
Your Section: 50



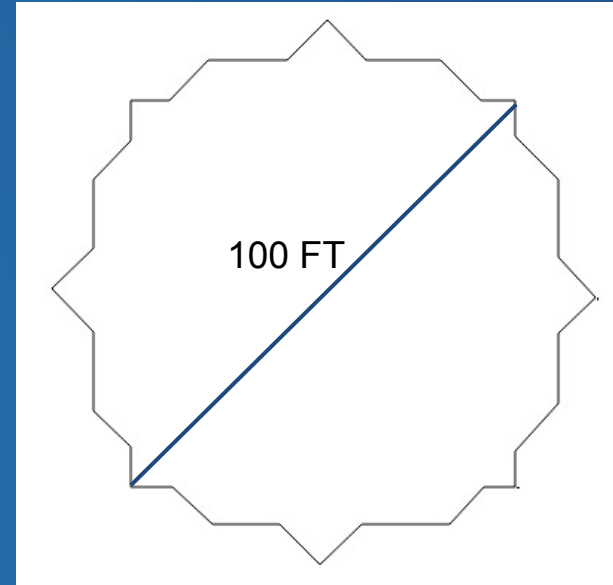
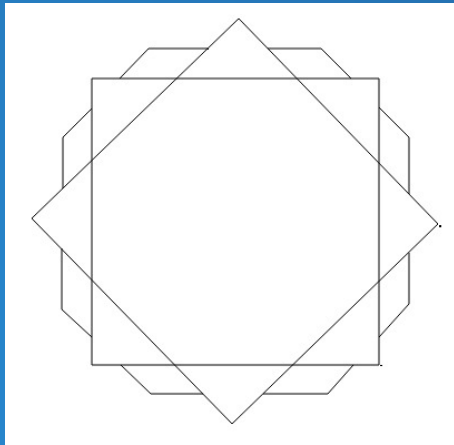
# 2-D Footprints- 2<sup>nd</sup> level

- Shapes used: Triangle, Octagon & Circle
- Total Width: 175 FT
- Number Of Floors In Your Section: 50



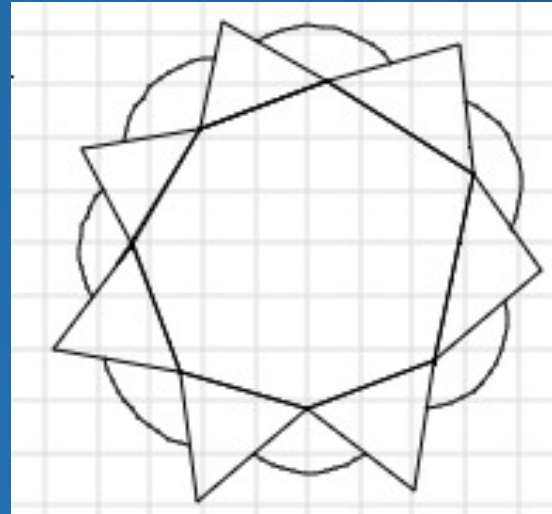
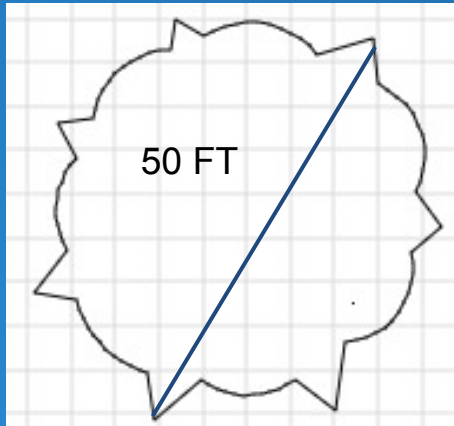
# 2-D Footprints- 3<sup>rd</sup> level

- Shapes used: Octagon, Isosceles Triangle & Parallelogram
- Total Width: 100 FT
- Number Of Floors In Section: 50

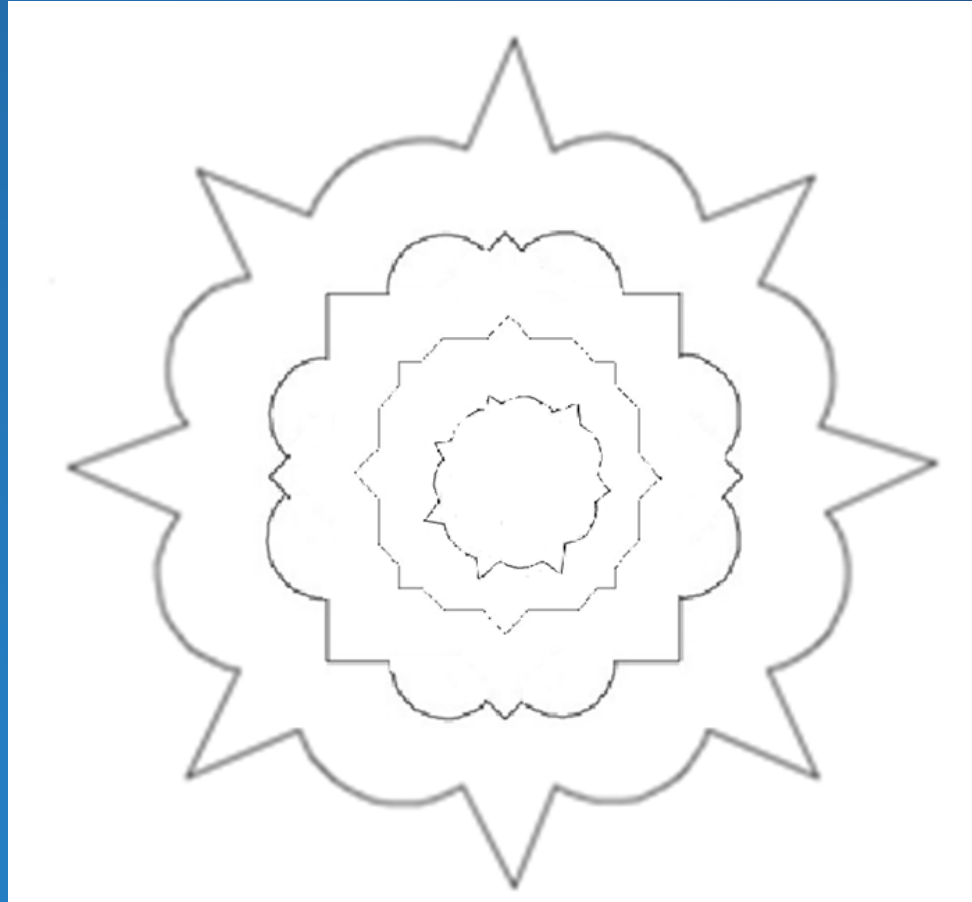


# 2-D Footprints- 4<sup>th</sup> level

- Shapes used: Triangle, Septigon & Circle
- Total Width: 50 FT
- Number Of Floors In Your Section: 50



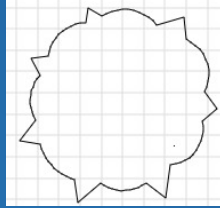
Top  
View



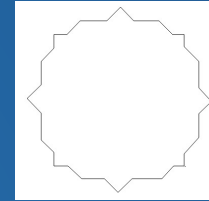


# Volume

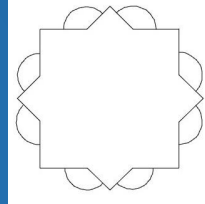
4<sup>th</sup> level= 240,000 ft<sup>3</sup>



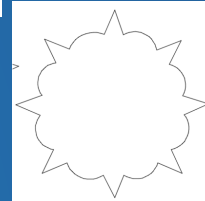
3<sup>rd</sup> level= 6,412,000 ft<sup>3</sup>



2<sup>nd</sup> level= 49,264,000 ft<sup>3</sup>



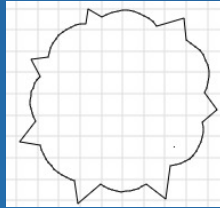
1<sup>st</sup> level= 135,091,200 ft<sup>3</sup>



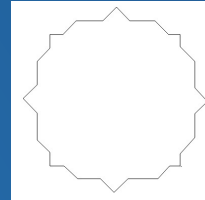
Total Volume= 190,767,200 ft<sup>3</sup>

# Surface Area

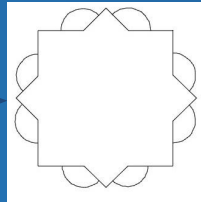
4<sup>th</sup> level= Unknown



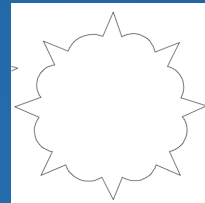
3<sup>rd</sup> level= 846,100 ft<sup>2</sup>



2<sup>nd</sup> level= 8,217,300 ft<sup>2</sup>



1<sup>st</sup> level=86,591,696 ft<sup>2</sup>



Total Surface Area with known width= 95,655,096 ft<sup>2</sup>

# Construction Cost

1<sup>st</sup> level area 15,669,000 ft<sup>2</sup>  
2<sup>nd</sup> level area 2,368,200 ft<sup>2</sup>  
3<sup>rd</sup> level area 320,600 ft<sup>2</sup>  
+4<sup>th</sup> level area 23,436 ft<sup>2</sup>  

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Total area 18,381,236 ft<sup>2</sup>

Cost per ft<sup>2</sup>  
\$3,287

18,381,236 ft <sup>2</sup>	←	Total Area
x 3,287	←	Cost per ft <sup>2</sup>
<hr/>		
\$ 60,419,000,000	←	Total Cost

# Solution

Our building, located in Paris, is aesthetically pleasing because it has a unique pattern, radial symmetry, is tall, and has many purposes.