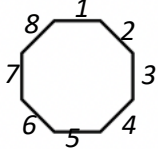

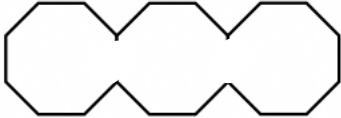
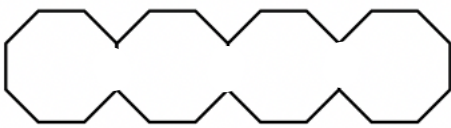
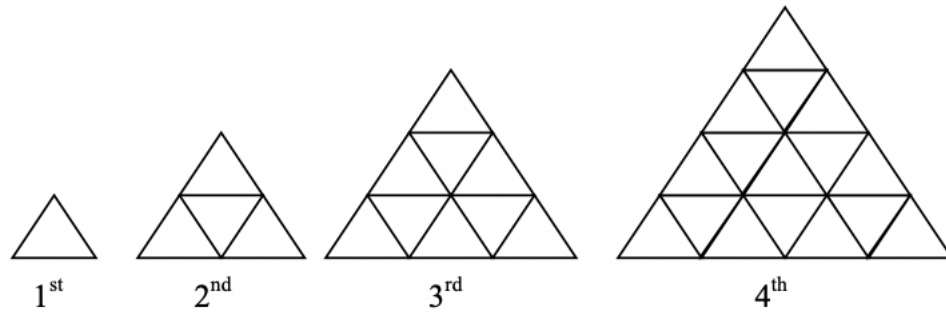


Investigating Octagons

# of octagons		Perimeter of total figure
1		8
2		14
3		<u>21</u>
4		<u>28</u>
....		
	<i>Can you figure these out without drawing octagons?</i>	
5		<u>35</u>
6		<u>42</u>
7		<u>49</u>
Challenge:		
10		<u>70</u>
20		<u>140</u>
30		<u>210</u>

2. Investigating triangles



Area of each figure <i>Given each small $\Delta = 1 \text{ unit}^2$)</i>	1	4	9	16
Perimeter <i>Given each side of small $\Delta = 1 \text{ unit}$)</i>	3	6	9	12

What would the area and perimeter be for the

5th figure? Area 25 Perimeter: 15

Without drawing them, can you find the area and perimeter of the:

10th figure? Area 100 Perimeter: 30

20th figure? Area 400 Perimeter: 60

100th figure? Area 10,000 Perimeter: 300