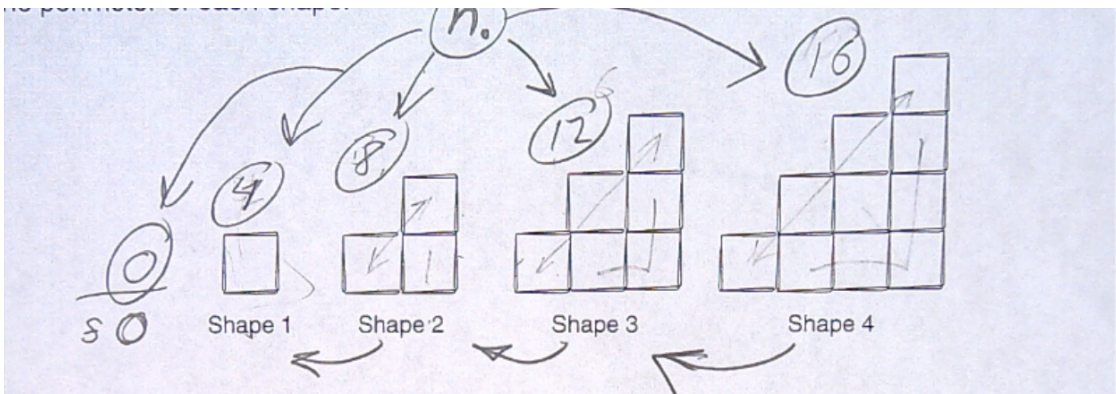


1. Use a pattern from the shapes above to determine the perimeter of the fifth shape in the sequence. Show or explain how you arrived at your answer. 20. I found the perimeter of each shape \geq it increased by 4 each time.

2. Write a formula that you could use to find the perimeter of any shape n . Explain how you arrived at your formula. $4(2n)$ $12n$ or $4n$



1. Use a pattern from the shapes above to determine the perimeter of the fifth shape in the sequence. Show or explain how you arrived at your answer. 20 toothpicks - perimeter keeps adding by 4 toothpicks each time

$$f(n) = n^4$$

2. Write a formula that you could use to find the perimeter of any shape n . Explain how you your formula. $f(n) = (n-1) \cdot 4 + 4$. \rightarrow the shape starts at