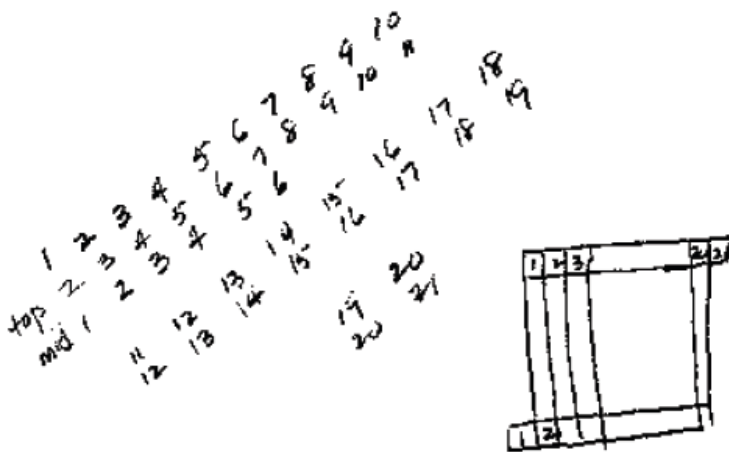


Handout #3: Student Work Samples

Work Sample a: Incorrect (lowest rating)

"The pattern stayed the same; it just doubled in size. Not much else to say about it."
Questions might be: Where did the numbers come from? What was the task? What do you think the pattern is? How can you check your pattern? If you were to write a rule, what would your input variable be?

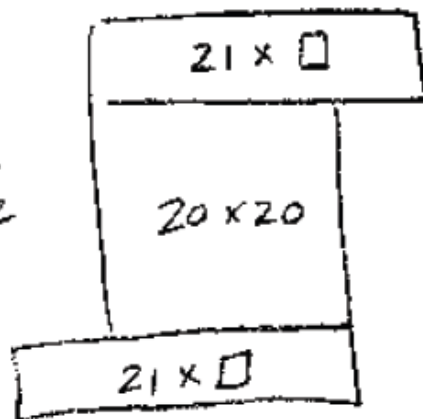
Work Sample b: Minimal (second lowest rating)



Handout #3: Student Work Samples

Work Sample c: Satisfactory (second highest rating)

20th figure will have 442 tiles. Starting with the first pattern there is 2 greater



Work Sample c: Extended (highest rating)

Each figure increases 1 layer in height and 1 middle layer in width for every succession relative to the first. For example, for the n th section, the figure will be $n+1$ units across the base, n units wide, $n+1$ units across the top, and $n+2$ units high. This is the pattern.

The 20th figure will be 21 units across on the bottom, length, 20 units wide in the middle, 22 units high, and 21 units at the top. The increase is linear.

Total number of tiles it contains:

$$21 + (20 \times 20) + 21 = 442$$

The inner square is always $(n \times n)$ units

Handout #3: Student Work Samples