QUIZ 1

NAME: ______________________________

1. Create two expressions that can be used to represent the following rectangular objects and explain how they represent it: (5 points)

![Rectangular Object](image)

Note that the above rectangle is filled with both black and white blocks.

2. Now create one equation that represents the above rectangular object and explain the difference between an expression and an equation. (5 points)
3. A fellow classmate has been working with the following pattern below:

Note that the above consists of two complete pattern cycles.

Your classmate thinks that the first 52nd entries uses eight complete pattern cycles and the 52nd object in the sequence a ⚡ (lightning bolt).

(a) First determine if your classmate's thoughts are correct. (1 point)

(b) If your classmate is correct, explain how you know. If your classmate is incorrect explain how you know, and explain how you know how many pattern cycles are in the first 52nd entries and what will be the 52nd object in the sequence. (4 points)