MPS Learning Targets/Objective/ Wisconsin Assessment Framework for Mathematics - Descriptors

LT10.0 – Functions: Evaluate, analyze, and identify differences between relationships represented by algebraic equations.
F2 Analyze, generalize, and represent patterns of change.
LT1.0 – Process: Communicate mathematical ideas and reasoning using the vocabulary of mathematics in a variety of ways.
A1 Use reasoning and logic to perceive patterns, identify relationships, and evaluate and justify strategies.

Sally is having a party.
- The first time the doorbell rings, 1 guest enters.
- The second time the doorbell rings, 3 guests enter.
- The third time the doorbell rings, 5 guests enter.
- The fourth time the doorbell rings, 7 guests enter.

Keep going in the same way. On the next ring a group enters that has 2 more persons than the group that entered on the previous ring.

(a) How many guests will enter on the 10th ring? Explain or show how you found your answer.

(b) How many guests will enter on the 100th ring? Explain or show how you found your answer.

(c) 299 guests entered on one of the rings. What ring was it? Explain or show how you found your answer.

(d) Write a rule or describe in words how to find the number of guests that entered on each ring.

(e) Write a rule or describe in words how to find the total number of guests at the party after any given ring.

Please continue on the reverse side
About 3 months ago, we asked you to indicate how you think and feel about mathematics. We would like to know if anything has changed since then. Please consider the following questions and tell us how you truly feel. There is no right or wrong answer.

1. If Math were a **food**, it would be __________________ because________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________

2. If Math were an **animal**, it would be __________________ because________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________