

Good Morning PCMi<sup>ers</sup>!

→ Problem out of the Box

Day 11: Observations about PootB:

YAY!

- Coloring the circles to make pretty patterns!
- If  $n = 3 \pmod{4}$ , it won't appear on the grid of circles, also  $11 \pmod{12}$
- Factor a number that is a multiple of 3... look at factors

$$39 = 3 \cdot 13 \begin{array}{l} \rightarrow 3 = 3 \pmod{4} \\ \rightarrow 13 = 1 \pmod{4} \end{array}, 39 \text{ doesn't work}$$