Algebra

Activity 1a - Multiplication via the FOIL Method

Part I

- $\begin{array}{ccc} \text{1. Multiply} & & 21 \\ \times & 23 \end{array}$
- 2. Multiply (20+1)(20+3)

Explain why problems 1) and 2) are the same process.

If you learned other ways to multiply two-digit numbers, show them to your group and explain why it is the same process as problems 1) and 2)

3. Multiply (2x+1)(2x+3)

Explain why this is the same process as problems 1) and 2)

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Part II

Expand the following:

- 1. (x+1)(x+1)
- 2. $(x+1)^2$
- 3. (x+1)(x+1)(x+1)
- 4. $(x+1)^3$
- 5. $(x+1)^4$
- 6. $(x+1)^5$

Do you see a pattern?