Algebra
Activity 1a - Multiplication via the FOIL Method

## Part I

1. Multiply $\begin{array}{r}21 \\ \times \quad 23 \\ \hline\end{array}$
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 $(2 x+1)(2 x+3)$

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?

