

## Algebra Essentials and Applications Internet Activity

### ***ME1 Napier's Bones Investigations***

1. Use the “Napier’s Bones—A Java Simulation” site to perform several multiplication problems of your own. (Notice that the second factor in each product must be a single digit.) Write five of the multiplication problems (and their solutions) you performed.

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2. When we multiply with pencil and paper, the details look like this:

$$\begin{array}{r} \phantom{2}^2 \phantom{5}^5 \\ 237 \\ \times 8 \\ \hline 1896 \end{array}$$

Explain how Napier imitated this process.

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3. Make a sketch showing how to use Napier’s bones to calculate  $237 \times 8$ .

4. In the examples, we have used a single-digit number as a multiplier. Can you think of a way to multiply by a two-digit or larger number?

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