

# Puzzle of the Week

## *Extreme Products – 1*

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**THE CHALLENGE:** 1) Using the digits from 1 to 9, each at most once, make two 2-digit numbers whose product is as large as possible. 2) Also, using the digits from 1 to 9, each at most once, make two 2-digit numbers whose product is as small as possible.

$$\begin{array}{ccccccc} \square & \square & \times & \square & \square & & \\ 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 \end{array}$$

**EXPLORATION:** Can you apply what you learned for multiplying two numbers to do this with multiplying three two-digit numbers? Can you think of other interesting variations?