## Pi Mu Epsilon Problem of the Month April 2018

| $\rightarrow 540$ | $\downarrow 630$ | $\downarrow 54$ | $\downarrow 108$ |  | $\begin{aligned} & \rightarrow 14 \\ & \downarrow 42 \end{aligned}$ | $\downarrow 16$ |  | $\downarrow 480$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\rightarrow 126$ |  |  |  | $\rightarrow 80$ |  | $\downarrow 10$ |  |
| $\begin{array}{\|l\|} \hline \vec{l}^{14} \\ \downarrow^{\prime} \end{array}$ |  |  | $\rightarrow 216$ | $\downarrow 4032$ |  |  | $\rightarrow 5$ |  |
| $\rightarrow 36$ |  | $\downarrow 20$ |  |  |  | $\begin{aligned} & \hline \rightarrow 84 \\ & \downarrow 63 \end{aligned}$ |  |  |
|  |  | $\rightarrow 630$ |  |  |  |  |  |  |
| $\begin{array}{\|l} \hline \rightarrow 360 \\ \downarrow 720 \\ \hline \end{array}$ | $\downarrow 48$ |  |  |  |  | $\rightarrow 12$ | $\downarrow 756$ | $\downarrow 27$ |
| $\rightarrow 30$ |  |  | $\begin{aligned} & \rightarrow 24 \\ & \downarrow 48 \end{aligned}$ |  | $\downarrow 108$ |  | $\rightarrow 63$ |  |
| $\rightarrow 48$ |  | $\downarrow 21$ |  |  | $\rightarrow 216$ | $\downarrow 30$ |  |  |
|  |  | $\rightarrow 42$ |  |  | $\rightarrow 135$ |  |  |  |

Problem of the Month Rules:
H The digits 1 through 9 appear in each row and each column exactly once (including the blue squares). Follow the clues for the products of the digits in each horizontal or vertical region.
H Submissions may only be made by individuals or groups of two and must be dated.
H Due: April 26, 2018 at 5 p.m. Give solution to Dr. Phillip Poplin (Ruffner 326A) or Dr. David Shoenthal (Ruffner 121).
To get your own copy, please visit: http://www.longwood.edu/mathematics/

