



# GEOD CORPORATION

AERIAL MAPPING · LAND SURVEYING · UTILITY MARKOUTS  
A CERTIFIED SMALL BUSINESS ENTERPRISE

For our Spring 2019 newsletter, you were asked to solve a math puzzle consisting of numbers and surveying tools.

$$\begin{aligned} \text{Drone} - \text{GNSS} &= \text{Total Station} + \text{Total Station} \\ 9 &= \text{Total Station} + \text{GNSS} \\ \text{GNSS} - \text{Total Station} &= 1 \\ \text{Digital Level} - \text{Total Station} &= \text{Drone} \\ \text{Total Station} + \text{GNSS} + \text{Drone} + \text{Digital Level} &= ? \end{aligned}$$

We have lots of surveying tools here: drones, total stations, digital levels and GNSS receivers. Consider all of the information in the graphic, and solve for the "?" in the 5<sup>th</sup> line. However, as you muddle your way through the puzzle and all that equipment, be careful you don't trip over the digital level!

Solution:

From Lines 2 & 3:  $\text{GNSS} = 5$  and  $\text{Total Station} = 4$

Then from Line 1:  $\text{Drone} - 5 = 4 + 4$  therefore  $\text{Drone} = 13$

Then from Line 4:  $\text{Digital Level} - 4 = 13$  therefore  $\text{Digital Level} = 17$

In Line 5, if  $\text{Total Station} = 4$ , then  $\text{Total Station} = 2$

Line 5 becomes  $2 + 5 + 13 + 17 = ?$        $? = 37$

Domenic D'Argenzio, PE from MRCE was drawn at random from the responses received and will receive a \$200 Amazon Gift Card. Congratulations Domenic!

Thanks to everyone who participated!