

# MATHCOUNTS<sup>®</sup> Problem of the Week Archive

## *Voter Turnout – November 5, 2018*

### *Problems*

In the town of Newtonville, 60% of the registered voters turned out to cast their votes in the most recent election. If 2814 residents of Newtonville voted in this election, how many registered voters were there in Newtonville?

At one polling center in Newtonville, from 7:00 a.m. to 5:00 p.m., an average of 23 voters cast their votes each hour. At this rate, how many voters cast their votes at that polling center?

At the same polling center, one-fifth of the voters cast their votes using a particular electronic voting terminal between noon and 3:00 p.m. During that time, there was a constant flow of voters using the voting terminal. What was the average number of minutes each voter took to cast his/her vote during this period? Express your answer to the nearest tenth.