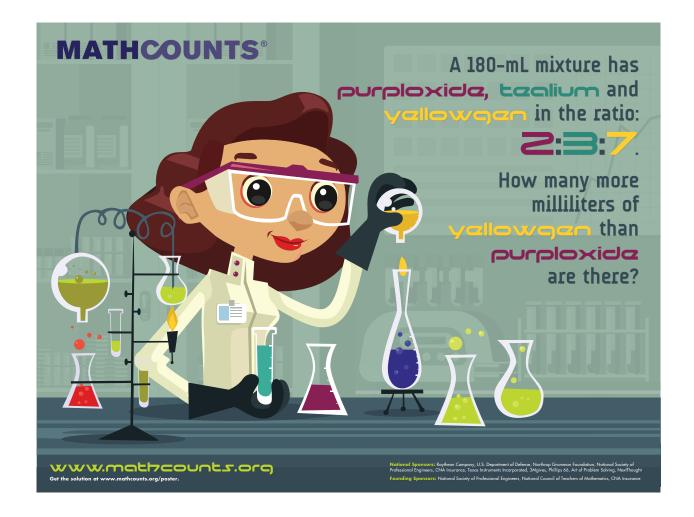
MATHCOUNTS 2018–2019 HB Poster Solution



Since purploxide, tealium and yellowgen are in the ratio 2:3:7, it follows that $\frac{2}{12}$ of the 180-mL mixture is purploxide and $\frac{7}{12}$ is yellowgen. The difference is $\frac{7-2}{12} = \frac{5}{12}$ of the mixture, which means there are $180 \times \frac{5}{12} = 15 \times 5 =$ 75 more milliliters of yellowgen than purploxide.