

Problem Set

1. Without using long division, explain why the tenths digit of $\frac{3}{11}$ is a 2.
2. Find the decimal expansion of $\frac{25}{9}$ without using long division.
3. Find the decimal expansion of $\frac{11}{41}$ to at least 5 digits without using long division.
4. Which number is larger, $\sqrt{10}$ or $\frac{28}{9}$? Answer this question without using long division.
5. Sam says that $\frac{7}{11} = 0.63$, and Jaylen says that $\frac{7}{11} = 0.636$. Who is correct? Why?