

QUICK TIP!

Hey Kids! Time for a super fun math lesson, courtesy of Math Madness!

REPEATING DECIMALS

Many division problems cannot be answered exactly by using decimals. Instead, you will find that the decimal part just goes on forever. This is called a "repeating decimal." This can be indicated by writing a "..." at the end of the decimal, or by putting a line above the repeating decimal. Ex:

$$\frac{1}{3} = 3 \overline{)1} = .333... = .\overline{3}$$

$$\frac{1}{6} = 6 \overline{)1} = .1666... = .1\overline{6}$$

$$\frac{1}{7} = 7 \overline{)1} = .142857... = .\overline{142857}$$

$$\frac{1}{9} = 9 \overline{)1} = .111... = .\overline{1}$$

**TRY IT!**

Write the fractions below as repeating decimals

$$\frac{10}{6} =$$

$$\frac{7}{15} =$$

$$\frac{67}{11} =$$

$$\frac{29}{90} =$$

$$\frac{2}{3} =$$

$$\frac{23}{12} =$$

$$\frac{5}{6} =$$

$$\frac{7}{11} =$$

$$\frac{43}{24} =$$

$$\frac{2}{11} =$$

$$\frac{5}{9} =$$

$$\frac{7}{3} =$$