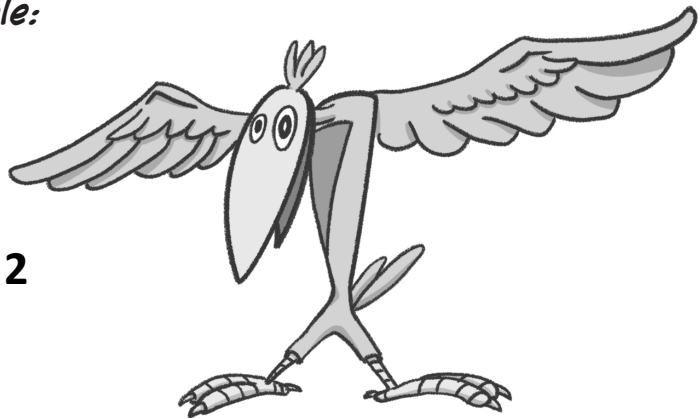# QUICK TIP!

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

— SIMPLIFYING EQUATIONS WITH FRACTIONS —

Just as you can simplify a fraction, you can simplify a multiplication or division problem involving fractions. Doing some simplification up front can save you a lot of work! For example:

$$\frac{2}{3} \times \frac{1}{4} = \frac{\cancel{2} \times 1}{3 \times 2 \times \cancel{2}} = \frac{1}{6}$$

$$\frac{4}{5} \div \frac{2}{5} = \frac{4}{5} \times \frac{5}{2} = \frac{4 \times \cancel{5}}{\cancel{5} \times 2} = \frac{4}{2} = 2$$

__ TRY IT: MULTIPLICATION! _____

$$\frac{2}{5} \times \frac{5}{7} = \qquad \frac{3}{4} \times \frac{2}{3} = \qquad \frac{5}{8} \times \frac{2}{5} = \qquad \frac{1}{3} \times \frac{3}{7} =$$

$$\frac{7}{6} \times \frac{4}{7} = \qquad \frac{3}{4} \times \frac{2}{6} = \qquad \frac{4}{5} \times \frac{1}{2} = \qquad \frac{4}{5} \times \frac{5}{8} =$$

— TRY IT: DIVISION! _____

$$\frac{2}{9} \div \frac{1}{3} = \qquad \frac{1}{6} \div \frac{1}{3} = \qquad \frac{3}{5} \div \frac{1}{5} = \qquad \frac{3}{4} \div \frac{3}{4} =$$

$$\frac{5}{6} \div \frac{5}{9} = \qquad \frac{10}{7} \div \frac{5}{3} = \qquad \frac{4}{6} \div \frac{4}{3} = \qquad \frac{2}{3} \div \frac{4}{9} =$$