

QUICK TIP!

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

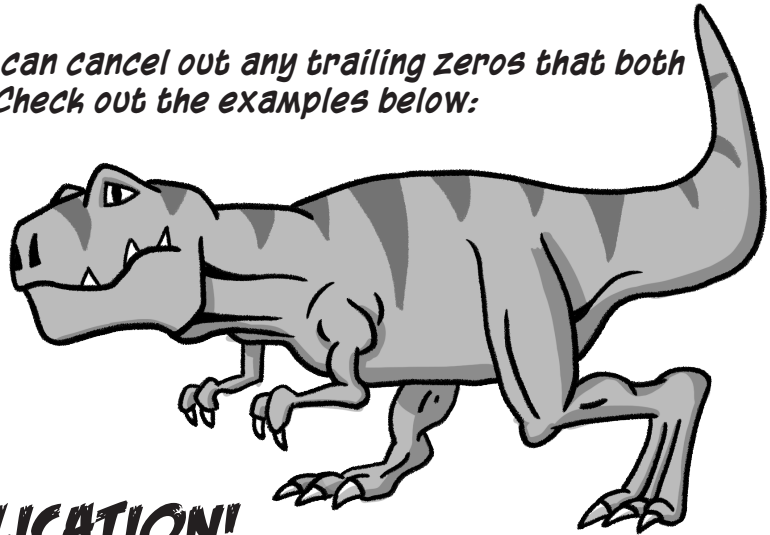
SHORTCUTS FOR POWERS OF TEN

Here's a pair of handy shortcuts you can use when multiplying or dividing numbers with a lot of trailing zeros.

- When multiplying, you can just ignore the trailing zeros and multiply the remaining digits. Once you have finished the multiplication, tack the trailing zeros back on!
- When you are dividing, you can cancel out any trailing zeros that both numbers have in common. Check out the examples below:

$$\begin{aligned} 600 \times 4000 &= \\ 6 \times 4 \times 100 \times 1000 &= \\ 24 \times 100,000 &= 2,400,000 \end{aligned}$$

$$\begin{aligned} 42000 \div 600 &= \\ \frac{420 \times \cancel{100}}{6 \times \cancel{100}} &= \frac{420}{6} = 70 \end{aligned}$$

**TRY IT: MULTIPLICATION!**

$700 \times 400 = \underline{\hspace{2cm}}$

$6000 \times 3300 = \underline{\hspace{2cm}}$

$3600 \times 800 = \underline{\hspace{2cm}}$

$12 \times 22000 = \underline{\hspace{2cm}}$

$900 \times 14400 = \underline{\hspace{2cm}}$

$180 \times 5000 = \underline{\hspace{2cm}}$

$5000 \times 200 = \underline{\hspace{2cm}}$

$9900 \times 300 = \underline{\hspace{2cm}}$

TRY IT: DIVISION!

$6600 \div 600 = \underline{\hspace{2cm}}$

$48000 \div 1200 = \underline{\hspace{2cm}}$

$72000 \div 3000 = \underline{\hspace{2cm}}$

$320 \div 80 = \underline{\hspace{2cm}}$

$6240 \div 40 = \underline{\hspace{2cm}}$

$165000 \div 500 = \underline{\hspace{2cm}}$

$30000 \div 150 = \underline{\hspace{2cm}}$

$4500 \div 500 = \underline{\hspace{2cm}}$