

Multiplying by 10's and 100's

When multiplying by powers of 10 (10, 100, 1,000, etc.), you may use the "10 and 100 Rules" to multiply more quickly. These rules are also called trailing zeroes.

STEPS:

1. **Circle the leading digits** and any **digits before the zeroes**.
2. **Underline the zeroes**. **DO NOT UNDERLINE ANY ZEROES IN THE MIDDLE OF A NUMBER.**
3. **Multiply the circled numbers.**
4. Put the **underlined zeroes** on the **end of the product**.

Examples:

$$\textcircled{5} \times \textcircled{1\underline{0}} = 5\underline{0}$$

$$\textcircled{5} \times \textcircled{1\underline{00}} = 5\underline{00}$$

$$\textcircled{2} \times \textcircled{43\underline{0}} = 86\underline{0}$$

$$\textcircled{50} \times \textcircled{1\underline{00}} = 5,0\underline{00}$$

$$\textcircled{6} \times \textcircled{12\underline{00}} = 7,2\underline{00}$$

$$3 \times 109 = 327$$

10 and 100 Rules will not work.
You cannot underline a zero
that is in between 2 other digits.
You just have to multiply.

$$\begin{array}{r} \textcircled{2} \\ 109 \\ \times 3 \\ \hline 327 \end{array}$$