

M8 - 8.2 - $\times \div$ Same Plus, Different Minus Notes

If you multiply or divide numbers with two of the same sign we follow the rule "Same Plus."

$$\begin{array}{l} 3 \times 3 = \\ +3 \times +3 = \end{array} \textcircled{+9}$$

"Same plus"

$$\begin{array}{l} -9 \\ -3 \\ -9 \\ -3 \end{array} = \textcircled{+3}$$

"Same plus"

Same Plus

$$\begin{array}{l} + \times + = + \\ - \times - = + \\ + \div + = + \\ - \div - = + \end{array}$$

"Same plus"

If you multiply or divide numbers with two different signs we follow the rule "Different Minus."

$$\begin{array}{l} 3 \times -3 = \\ +3 \times -3 = \end{array} \textcircled{-9}$$

"Different minus"

$$\begin{array}{l} -9 \\ 3 \\ -9 \\ +3 \end{array} = \textcircled{-3}$$

"Different minus"

Different
Minus

$$\begin{array}{l} + \times - = - \\ - \times + = - \\ + \div - = - \\ - \div + = - \end{array}$$

"Different minus"

Don't forget about signs side-by-side!