## Activity!

The
Replacement Method


## Steps:

1. Copy the formula, substituting the letter constants with the relevant truth-values.
2. Calculate the operators with the smallest scopes.
3. Calculate the main operator.

Use the replacement method to calculate the truth-values of the following: (Key: $R$ and $L$ are true; $M$ and 0 are false.) a. $\sim[(0 \vee M) \supset(R \equiv M)]$
b. $[(R \& L) \vee(R \& M)] \& \sim(L \& M)$
c. $(([R \equiv L] \&[M \equiv 0]) \vee[M \supset R]) \supset 0$

