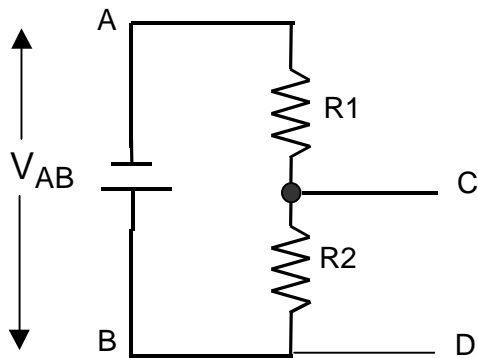


Voltage Divider: In the circuit below find the voltage between the points C and D. The result you obtain is useful to remember since this combination of resistors (called a voltage divider) occurs quite commonly in electronic circuits.



Solution:

The current in the circuit is $I = \frac{V_{AB}}{(R_1 + R_2)}$.

Hence the voltage $V_{CD} = R_2 \cdot I = R_2 \frac{V_{AB}}{(R_1 + R_2)}$