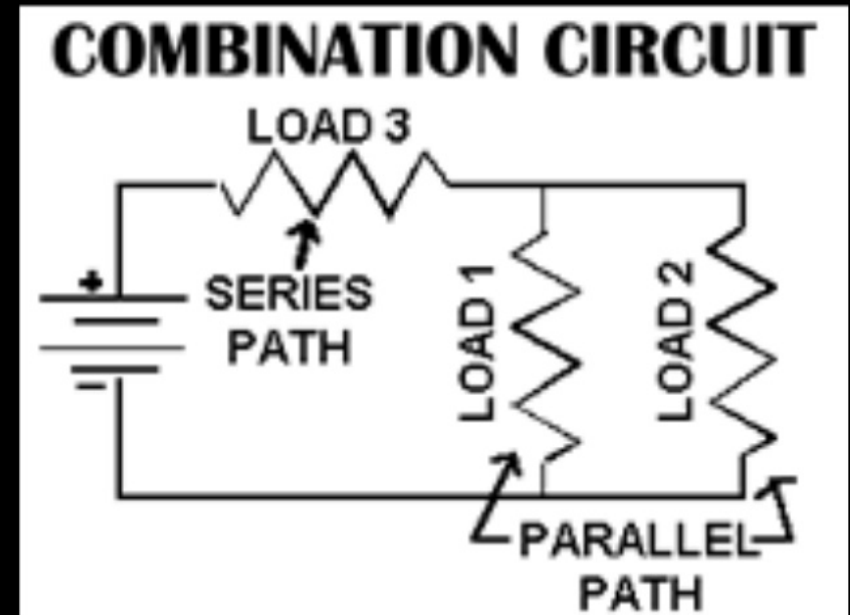


## 2.18.20

## Electricity: Comb. Circuits

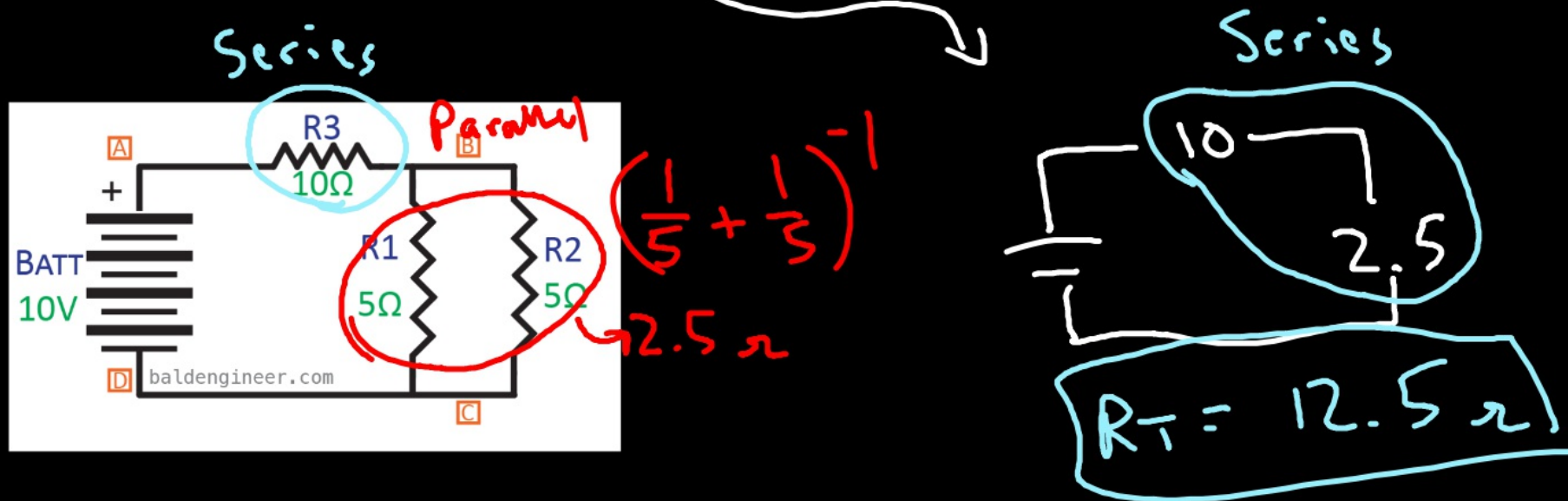
### Today's Objectives:

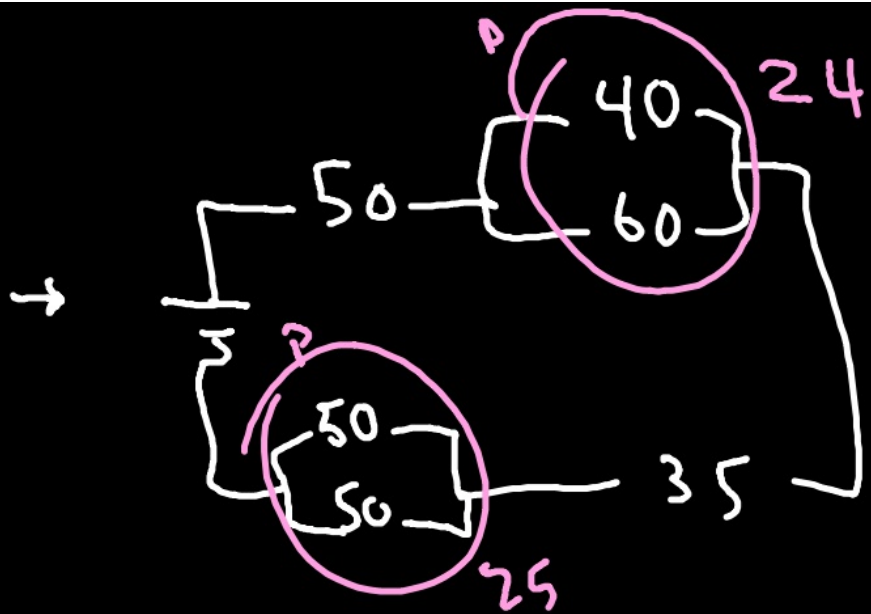
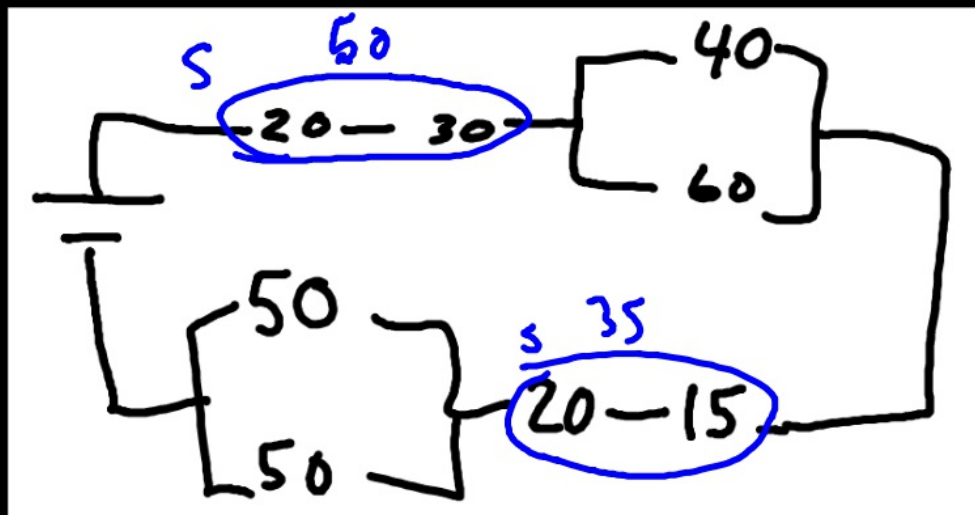
- What is a combination circuit?
- How to solve them
- Build circuits in real life



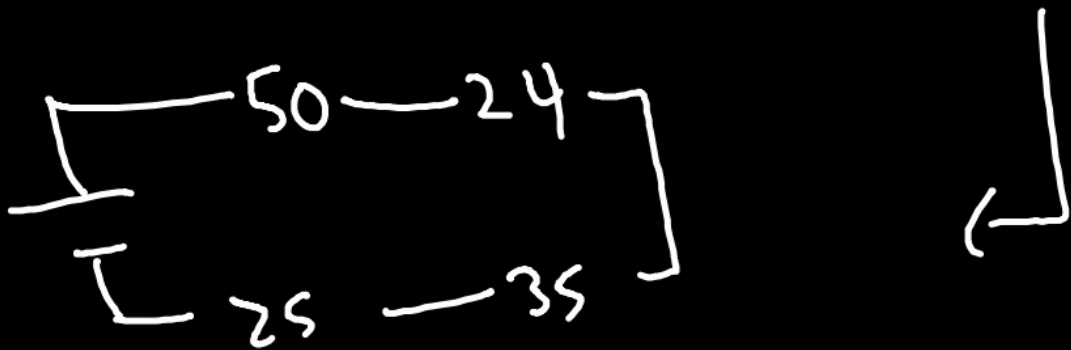
Combination Circuits - have both series and parallel

1. Solve series resistors first (Add them up).
2. Solve parallel resistors second  $\frac{1}{R_T} = \frac{1}{R_1} + \frac{1}{R_2}$
3. Simplify circuit and repeat if necessary





$R_T = 134 \Omega$



## **Mystery Circuit Board Lab**

- 1. Set the Voltage to 5 volts**
- 2. Set the Amps to 0.8 amps**
- 3. Connect the board**
  
- 4. Unscrew 1 light at a time, see the effect on the other bulbs.**
- 5. Use trial and error to figure out which ones are series or parallel.**
- 6. Draw the circuit diagram in your lab book.**