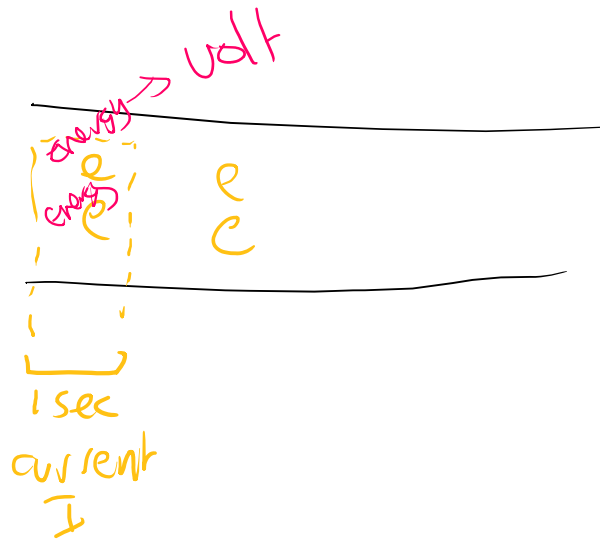


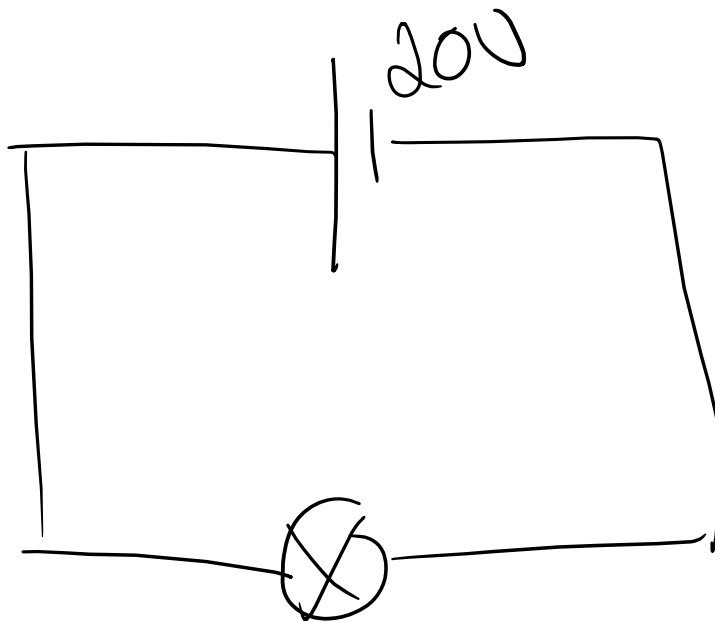
Volt - Electromotive force. (EMF)
 (V)
 - Potential difference.
 (P.d.)

Voltage (measure of energy)



$$\text{Volt} = \frac{\text{Energy}}{\text{charge}}$$

cash



every charge carries 20J

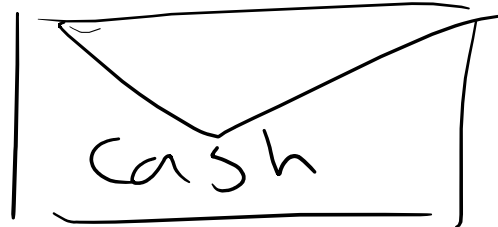
$$V = \frac{E}{Q} = \frac{20J}{1}$$

EMF

Rent



Tuition



Food



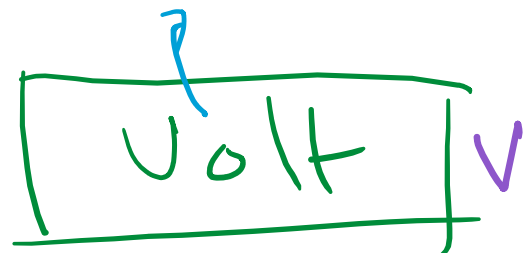
Pocket money



Source
& Energy

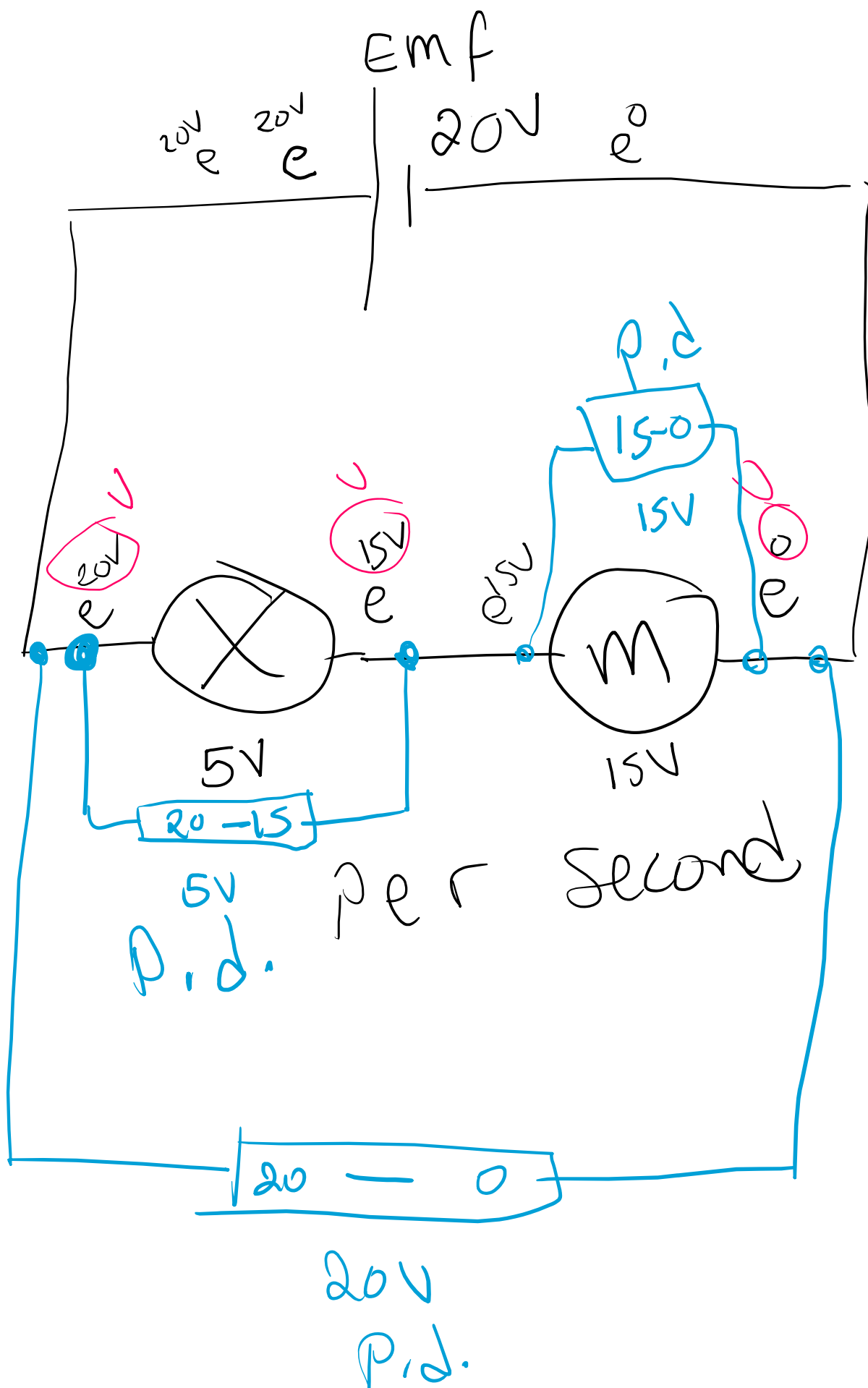


Push



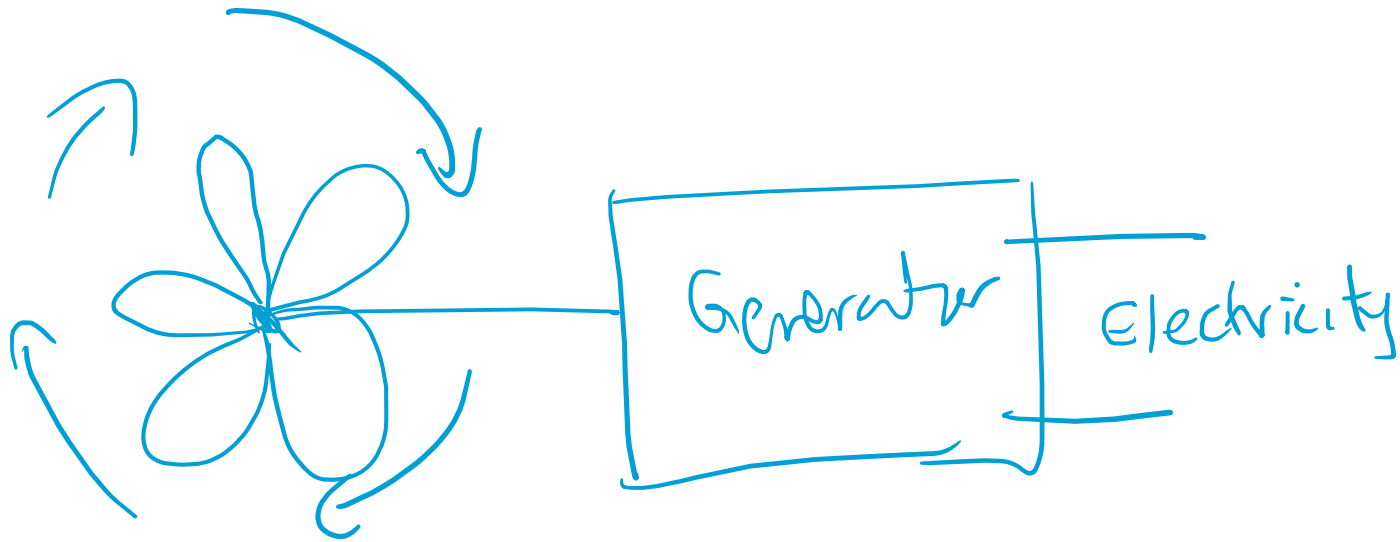
difference in Volt

⇒ difference in VOLT
between 2 points



✓ T
✓ V
✓ R

$$\text{EMF} = \frac{\text{Work}}{\text{Charge}}$$



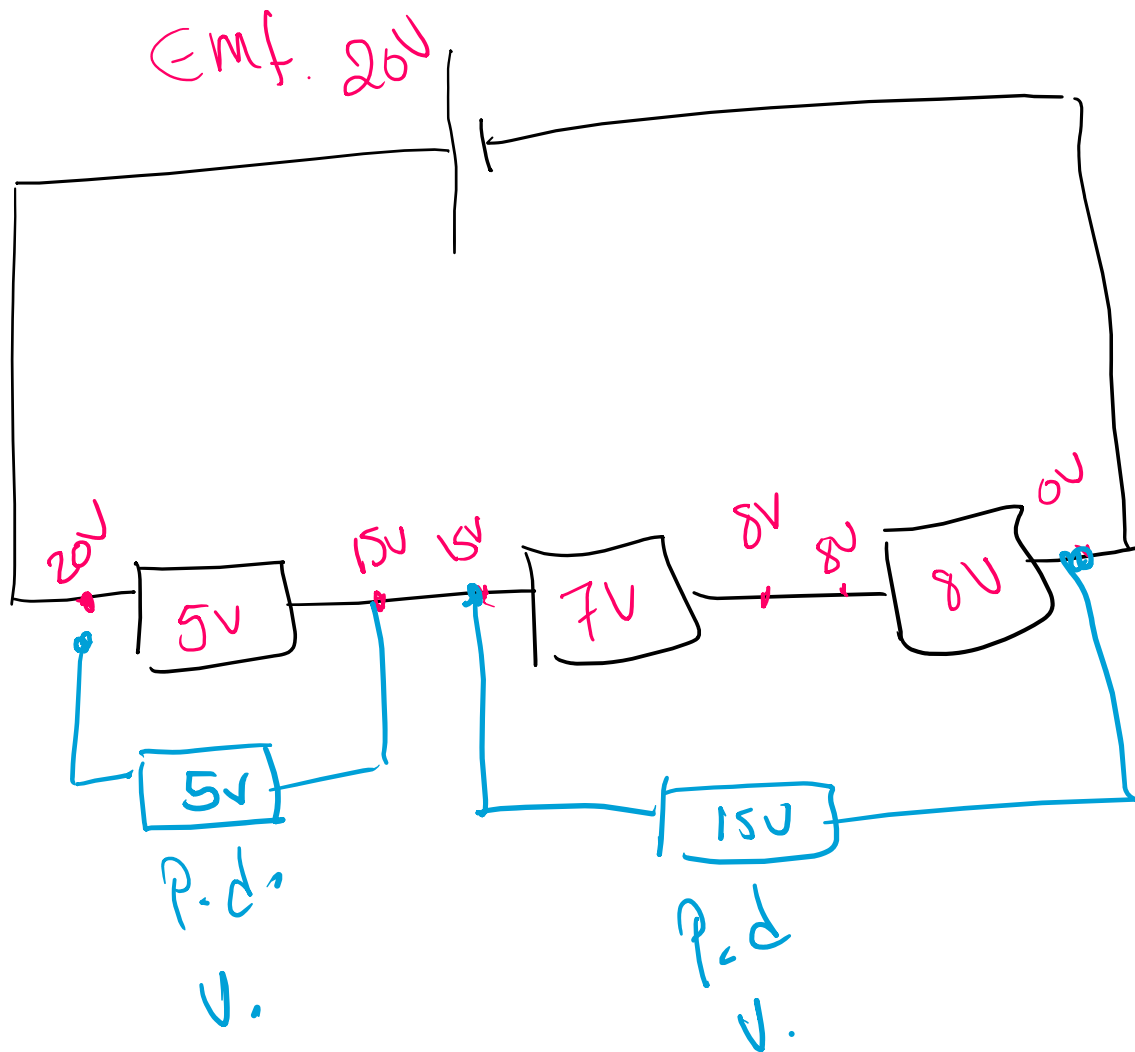
Electromotive force;

work done to move 1 charge
through a complete circuit

$$\underline{\text{Work} = \text{Energy}}$$

volt / potential difference

work done to move 1 charge
through 2 points in a circuit



$$EMF = V_1 + V_2 + V_3$$

$$P.d.1 + P.d.2 + P.d.3$$

→ Current flowing through a circuit stays the same.

→ Volt is used up through the circuit.