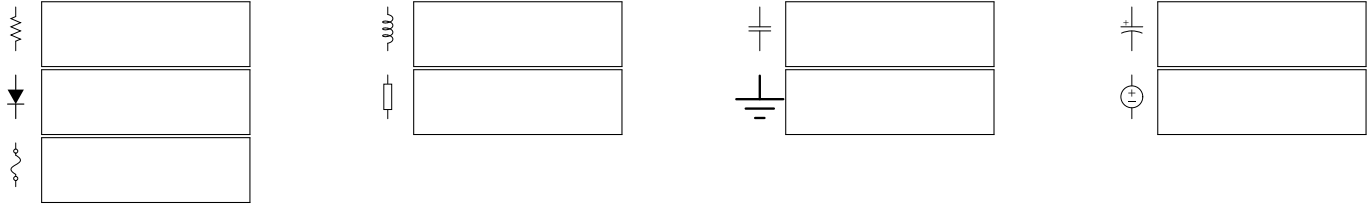
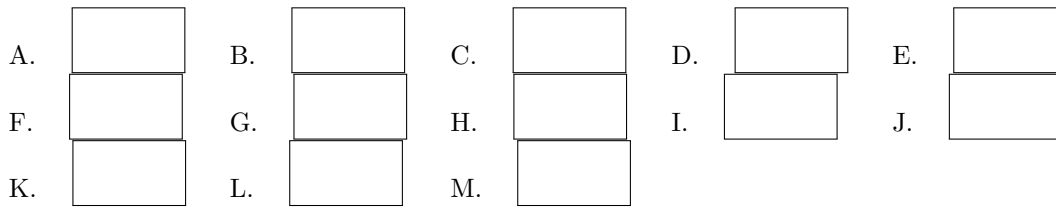
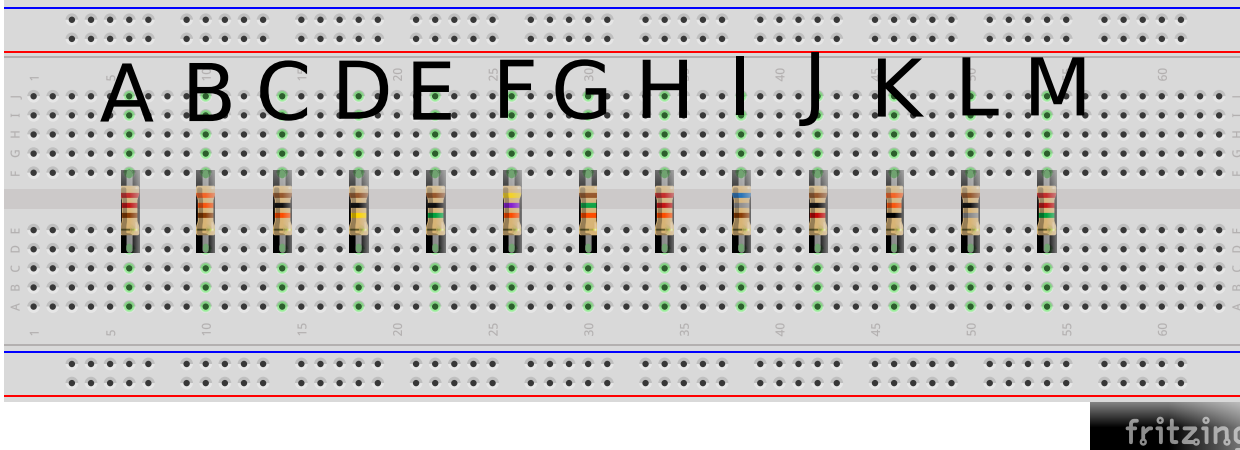




1. Identify each schematic symbol



2. What is the value of each Resistor?



3. For all the above resistors, what is the tolerance?

 %

4. Write the equations for:

- Voltage drop across a resistor

- Power radiated by a resistor in terms of voltage and current

- Energy of an object of mass
- m
- moving with velocity
- v
- $E =$

- Energy in a capacitor

- Energy in an inductor

5. Calculate the following with resistors

-
- $V = 5V, I = 2A, R =$

-
- $V = 5V, I = 2A, P =$

- $V = 2.5V, I = 30mA, R =$

- $V = 2.5V, I = 100mA, P =$

6. How much energy is stored?

- $C = 10\mu F$ and $V = 5V$ $\times 10$ J

- $C = 450\mu F$ and $V = 200V$ $\times 10$ J

- $C = 2600F$ and $V = 3V$ J

- $C = 10F$ and $V = 1000V$ kJ