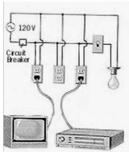
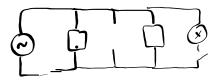
Household Wiring

1. Is most household wiring in series or in parallel? Explain.

parallel - all devices have same V



2. Draw an appropriate schematic for the household circuit shown.



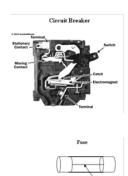
Household Wiring

3. What is the purpose of a fuse or a circuit breaker?

prevent too much current

How are they different?

fuses must be replaced breakers can be reset

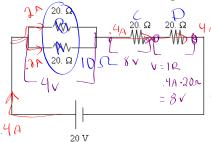


Household Wiring

4. A 900 watt toaster, a 640 watt waffle iron, and a 5 amp food processor are to be used on the same circuit. What size circuit breaker should be used?

Combination Circuits

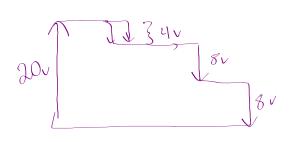
1. In each circuit below, determine the voltage drop across each resistor and the current through each resistor. $R_{11} = \left(\frac{1}{200} + \frac{1}{200}\right)^{-1}$



$$R_{e_{2}} = (\frac{1}{20x} + \frac{1}{20x})^{-1} + 20x + 20x = 50x$$

$$= 3v$$

$$T_{T} = \sqrt{7}/R_{e_{2}} = \frac{20v}{50x} = .4A$$



| | | I | \bigvee | |
|---|---|-------------|-----------|--|
| F |) | .2A | 41 | |
| | 3 | .2A | 40 | |
| (| - | ,4A) | 81 | |
| Ţ | | .4A) | 81 | |
| | | , 4A | 201 | |

