

Name\_\_\_\_\_ Date\_\_\_\_\_

### Section 11.2 Comparing Circuits

- 1) What is a big difference between parallel and series circuits regarding changes in one component?
  
- 2) Why are homes wired using parallel circuits?
  
- 3) How much voltage do power companies supply your home with?
  
- 4) What is the potential difference across each load in a parallel circuit?
  
- 5) What is one serious problem with parallel circuits?
  
- 6) What happens when current increases?
  
- 7) What do household circuits always have to prevent fires from happening?
  
- 8) Define fuse.
  
- 9) Where are fuses most often found?

10) Define circuit breaker.

11) Describe how a circuit breaker works. Include a diagram.

12) What happens to the current in a parallel circuit each time you add a resistor to another branch?

13) Define equivalent resistance.

14) What is the formula for calculating resistance?