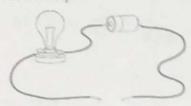
8. As distance doubles (2 times) between two objects, the gravitational force a. increases by a factor of 2 (2 times) b. increases by a factor of 1/4 d. decreases by a factor of 1/2 e. remains constant 9. As distance is reduced by half (1/2 times) between two objects, the gravitational increases by a factor of 2 (2 times) b. increases by a factor of 4 (4 times) c. decreases by a factor of 1/4 d. decreases by a factor of 1/2 e. remains constant 10. The moving subatomic particles in electricity are also known as a. voltage c. resistance in Ohms b. electrons d. power 11. An Volt in electricity is the in a circuit. a. amount of push behind electrons b. electrostatic force between two charges c. semiconductors resistance to current d. current 12. An Ohm in electricity is the in a circuit. a. push behind electrons c. semiconductor's resistance to current d. current 13. A is a closed, conducting path.	tational force exerted
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a. push behind electrons c. semiconductor's res b. electrostatic charge d. current	istance
b. electrostatic charge d. current	
13. A is a closed, conducting path.	
a. circuit c. insulator	
u. Ollows	
b. conductor d. electric charge	
14. A is used to open or close a conducting path.	
a. switch c. ampmeter	
b. resistor d. power source	
15. If I want to increase the current in a wire, I should increase the	
a. voltage c. number of lights	
b. length d. resistance	
16. If I want to decrease the current in a wire, I should decrease the	
a waltana a munkan af Kahta	
 a. voltage c. number of lights 	

17. A student plans to make this lightbulb glow. All of the following objects can be used to complete the circuit except -



- a. a plastic comb
- b. a copper penny

- a metal clip
- d. an iron nail
- 18. What is the current flowing through this circuit?

What is the current flowing through this circuit?
$$V = 3.0 \text{ V}$$

$$R = 3.0 \Omega$$

$$R = 5.0 \Omega$$

- 38 A a.
- b. 1.6 A

- c. 5.0 A
- d. 2.6 Coulombs / sec
- 19. What is the total resistance in this circuit?

$$V = 3.0 \text{ V}$$

$$R = 3.0 \Omega$$

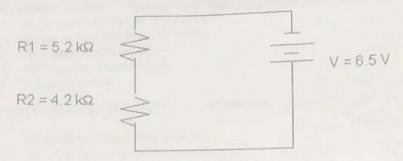
$$R = 5.0 \Omega$$

- a. 8.0 Ω
- b. 2.0 Ω

- c. 1.875 Ω

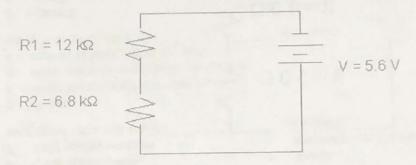
Name:

____ 20. How much current is flowing through this circuit?



a. .691 mAb. 6.91 mA

- c. .291 Amps
- d. 2.91 mA
- 21. How much current is flowing through this circuit?

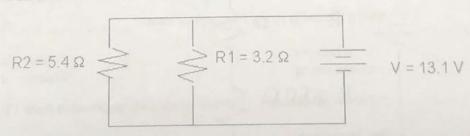


a. .692 mA

c. .000297 Amps

b. 6.92 mA

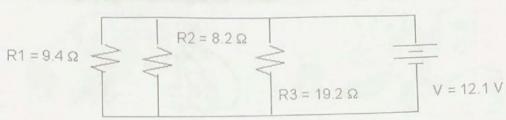
- d. 2.97 mA
- 22. What is the total resistance in this circuit?



- a. 2.0 Ω
- b. 8.6 Ω

- c. .50 Ω
- d. 4.5 Ω

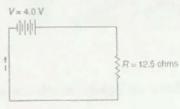
____ 23. What is the total resistance in this circuit?



- a. 3.6 Ω
- b. 37 Ω

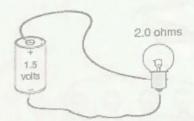
- c. .28 Ω
- d. 4.6 Ω

24. What is the current in the circuit shown in figure 1?



- Figure 1
- a. 12.5 A
- b. 0.32 A

- c. 3.13 A
- d. 4.0 A

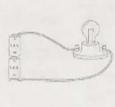


25. In this circuit, how much current flows through the lightbulb?

- a. 1.33 A
- b. 3.0 A

- c. 1,000,000 A
- d. 0.75 A

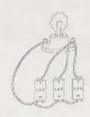
26. Which one of the circuits below will NOT cause the lightbulb to start glowing?



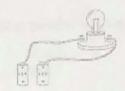
a.



b.

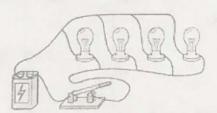


C.

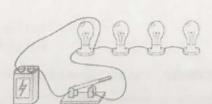


d.

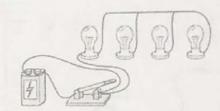
_ 27. Which circuit is built so that if one lightbulb goes out, the other three lightbulbs will continue to glow?



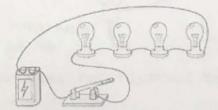
a.



b.



C.



d.

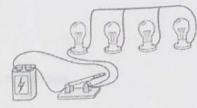
28. Which circuit is built with the lightbulbs in series?



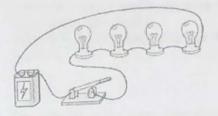
a



Ъ.



C



d.