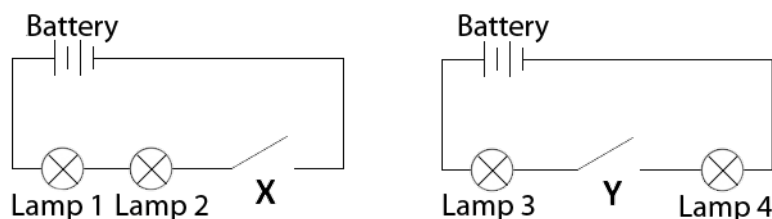


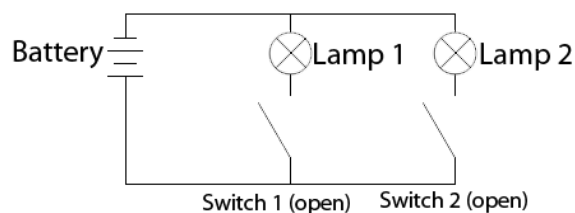
Switches

This task is about how switches in a simple circuit work. To do this task you need to know about circuits and be able to read circuit diagrams.



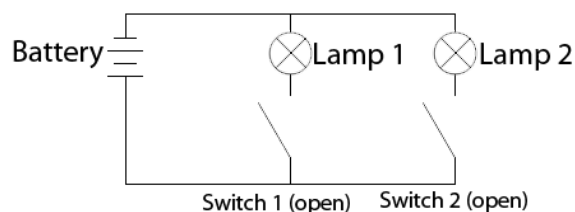
If switches X and Y are open, as shown, which lamps will be lit?

- | | |
|-----------------------|-------------------|
| <input type="radio"/> | None of the lamps |
| <input type="radio"/> | Lamp 4 only |
| <input type="radio"/> | Lamps 1, 2 and 3 |
| <input type="radio"/> | All of the lamps |



If you want lamps 1 and 2 in this circuit to light up, what position will the switches be in?

- | | |
|--|--|
| <input type="radio"/> Both switches open | <input type="radio"/> Both switches closed |
| <input type="radio"/> Switch 1 open, switch 2 closed | <input type="radio"/> Switch 2 open, switch 1 closed |



If you want only lamp 1 to light up, which switches should be open or closed?

- | | |
|---|--|
| <input type="radio"/> Switch 1 open and switch 2 open | <input type="radio"/> Switch 1 open, switch 2 closed |
| <input type="radio"/> Switch 1 closed, switch 2 open | <input type="radio"/> Switch 1 closed, switch 2 closed |