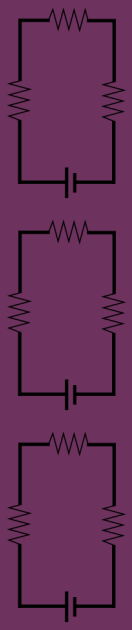


Current within a series circuit

Lesson 3

Today you will be express increases in current within a series circuit as a fraction.

'Electrical Conductor' what is it? How do they work?

Create a list of things in the classroom you can see and thing are electrical conductor:

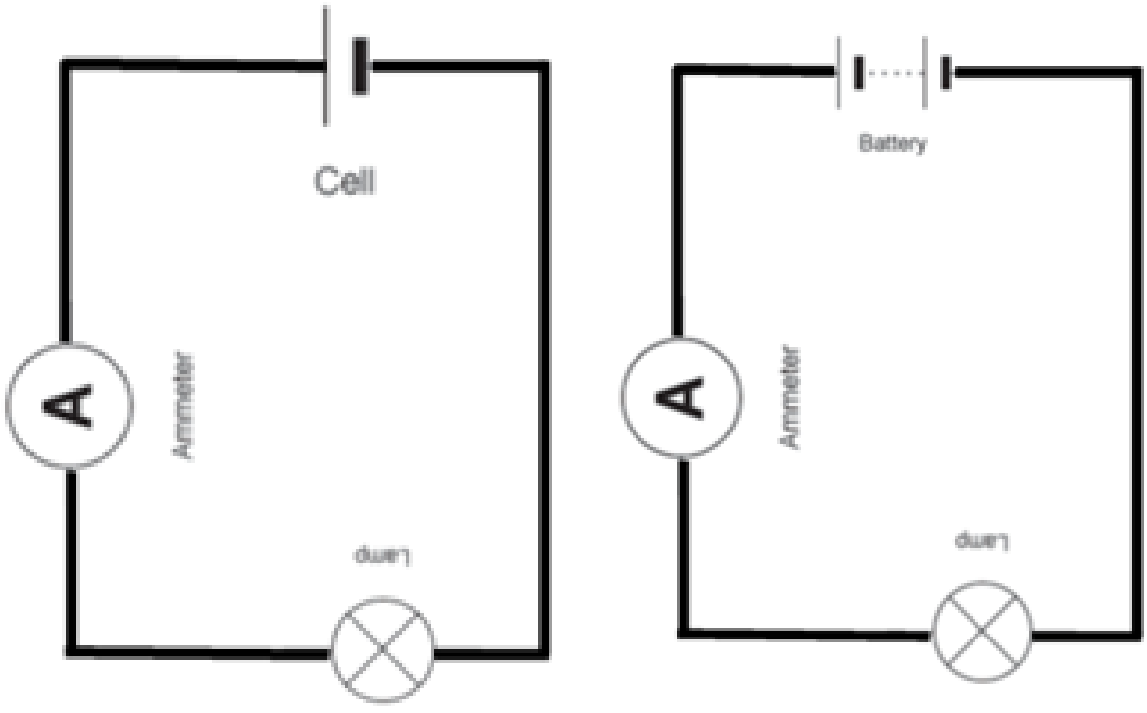
-
-
-
-
-

Educator Solutions

How is the current (energy) within a circuit measured?

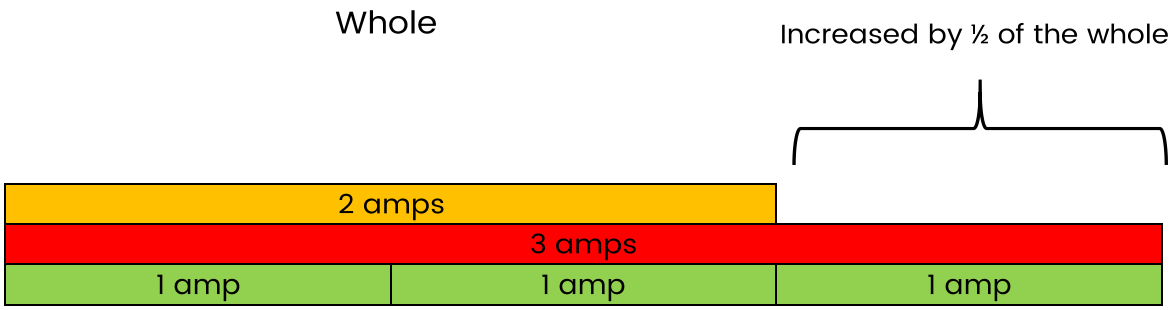
Measure the current of your simple circuit. Now compare your current to others?

Your Circuit	
Other Circuit	
Other Circuit	
Other Circuit	



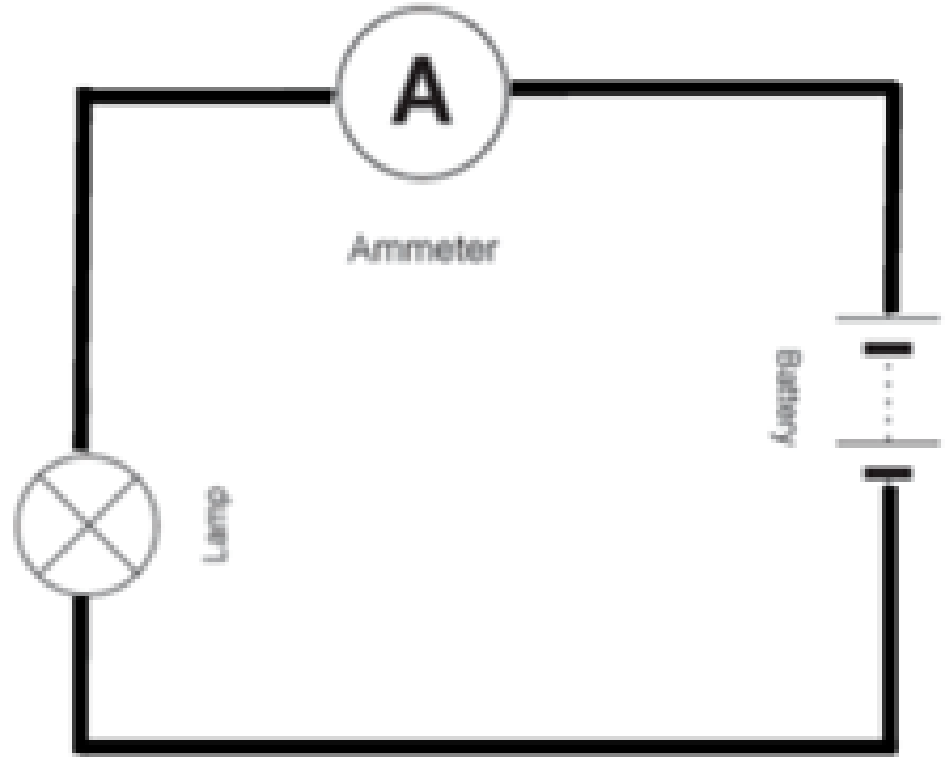
Which circuit will used more energy? A or B

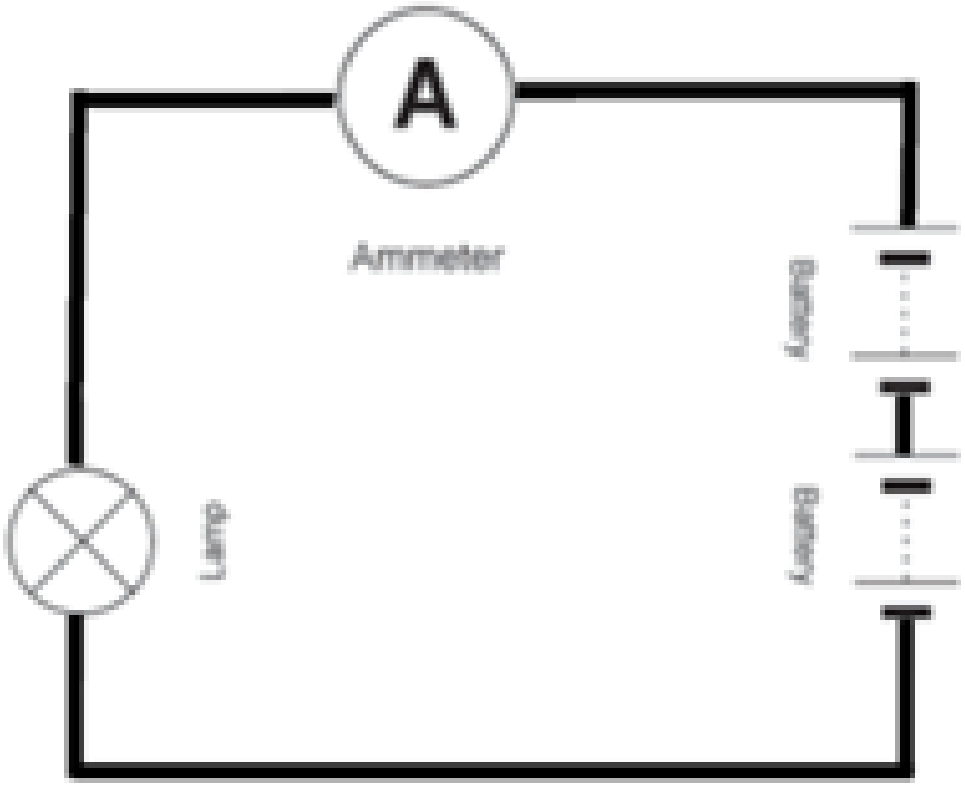
How much has the amps recording increased from first to the second circuit?



Current in 1st series circuit	Current in 2nd series circuit	Difference in current	Expressed as a fraction	Conclusion

Discussion notes:

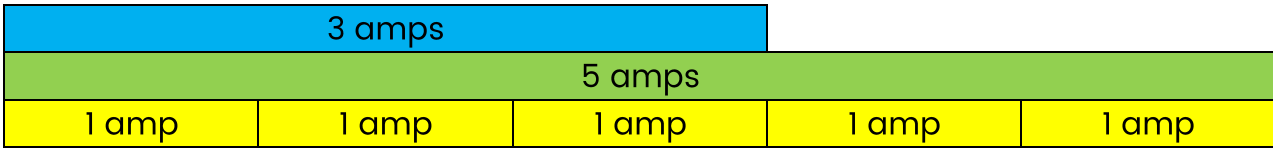




On this occasion, the readings should be 3 amps for the first circuit diagram and 5 amps for the second circuit diagram.

How much has the amps recording increased from first to the second circuit?

Used the bar model to help figure out the answer.



Current in 1st series circuit	Current in 2nd series circuit	Difference in current	Expressed as a fraction	Conclusion

How much has the circuit 2 increased by?

The current in a circuit increasing from 3 amps to 4 amps?

The current in a circuit increasing from 3 amps to 4 amps?

The current in a circuit increasing from 4 amps to 7 amps?

The current in a circuit increasing by 2/3. What could the ammeter readings have been both before and after the increase?