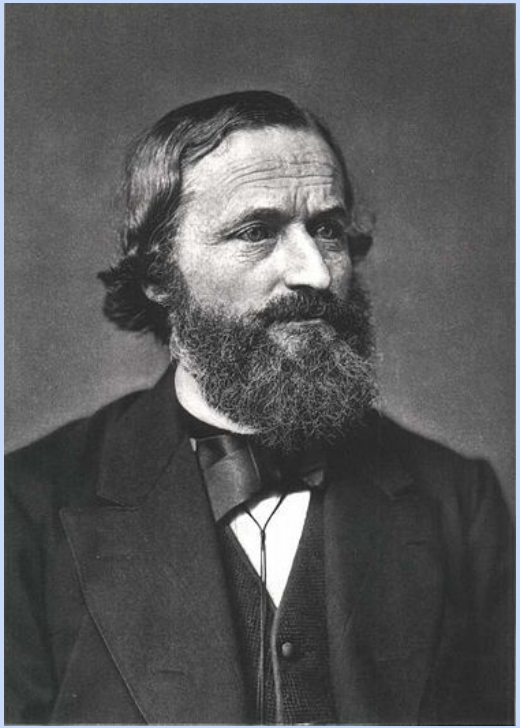
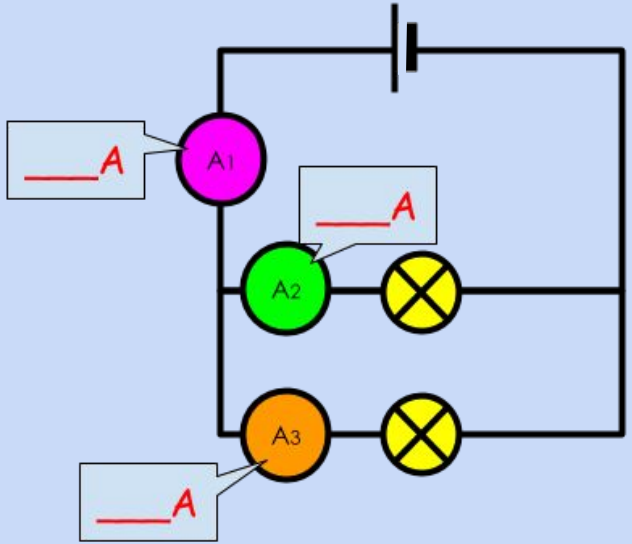
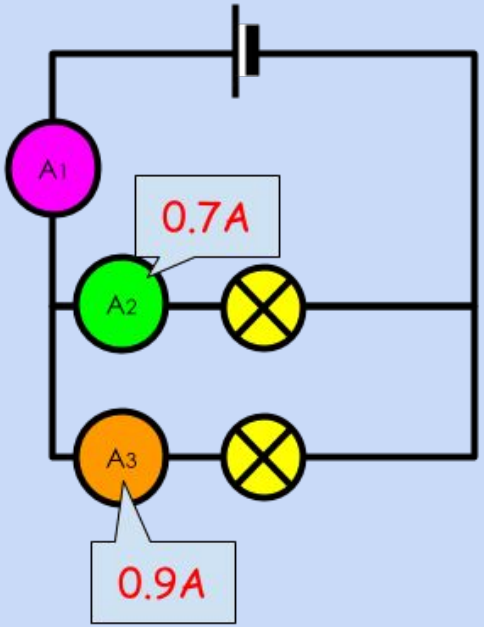
Ben's Research Lesson: what's the best way to teach Kirchoff's 1st Law?

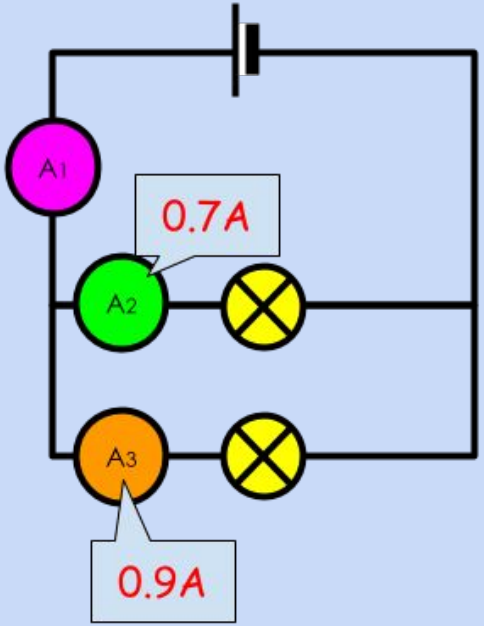




I do

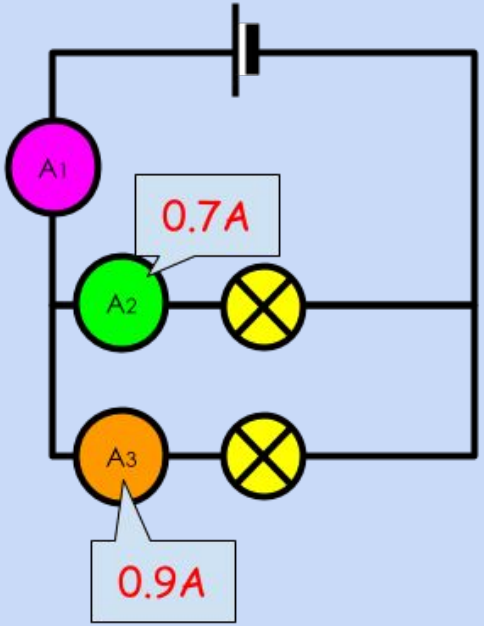


I do



$A_1 = A_2 + A_3$

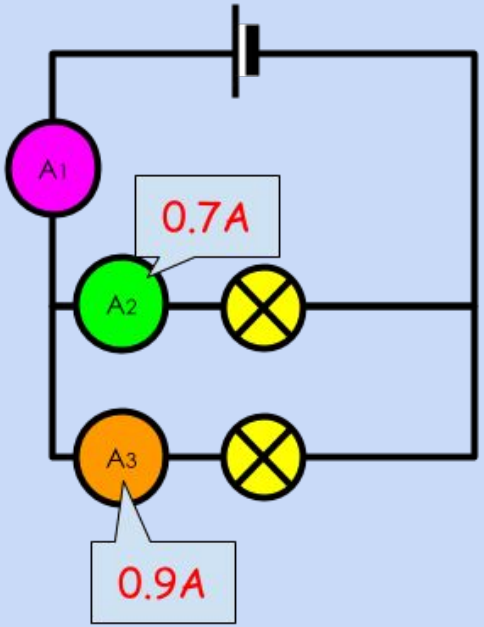
I do



$A_1 = A_2 + A_3$

___A = 0.7A + 0.9A

I do

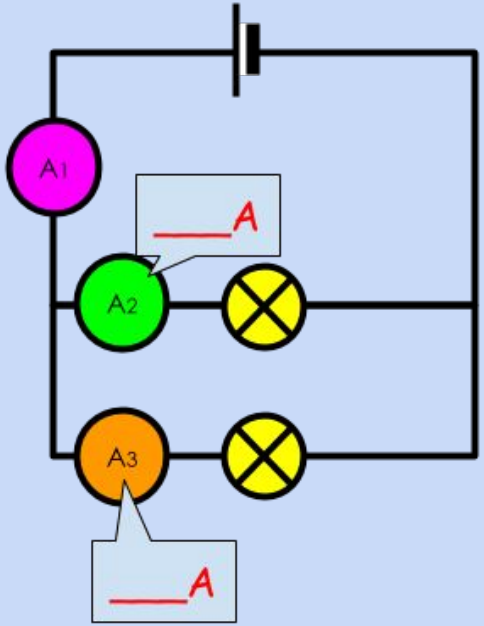


$A_1 = A_2 + A_3$

$1.6A = 0.7A + 0.9A$

I do

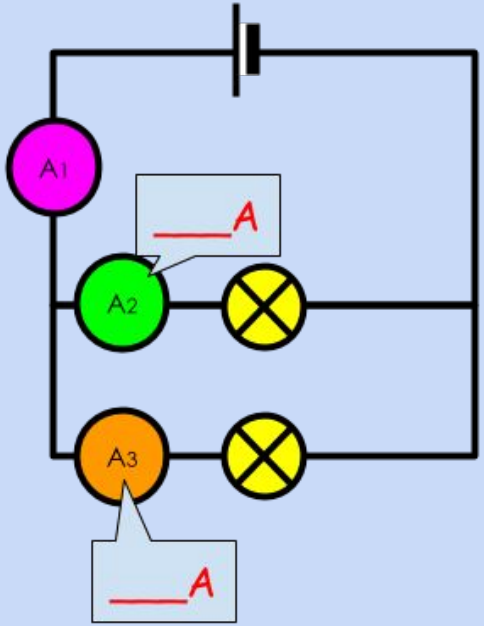
If the current through A_2 is 0.5A and the current through A_3 is 0.6A, what is the current through A_1?



I do

If the current through A_2 is 0.5A and the current through A_3 is 0.6A, what is the current through A_1?

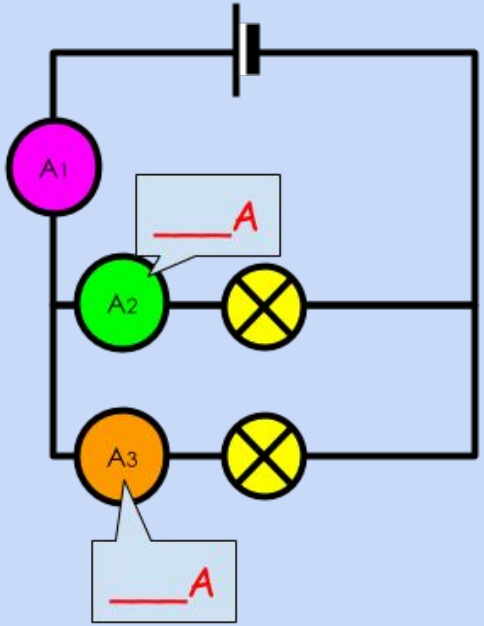
$A_1 = A_2 + A_3$



I do

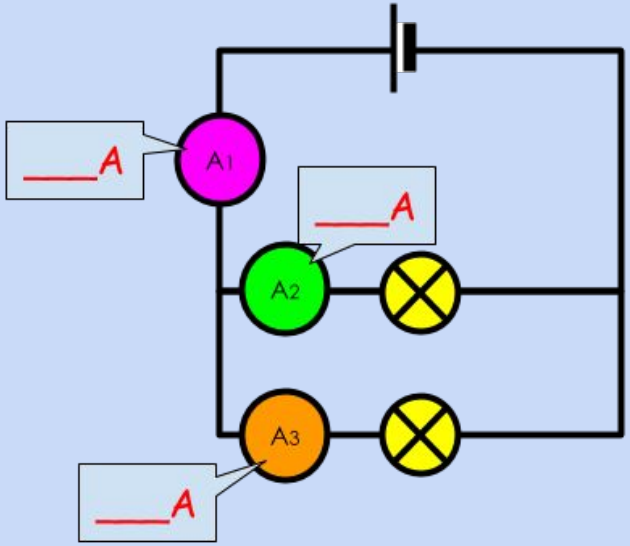
If the current through A_2 is 0.5A and the current through A_3 is 0.6A, what is the current through A_1?

___A = 0.5A + 0.6A



we do

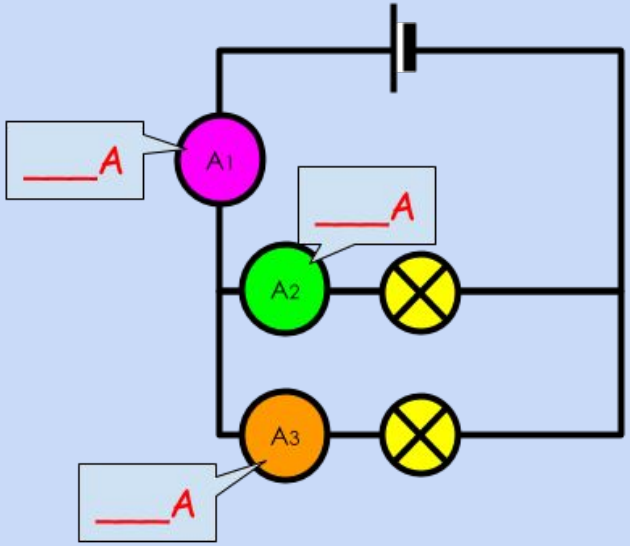
If the current through A_2 is 1.2A and the current through A_3 is 0.8A, what is the current through A_1?



___A = ___A + ___A

you do

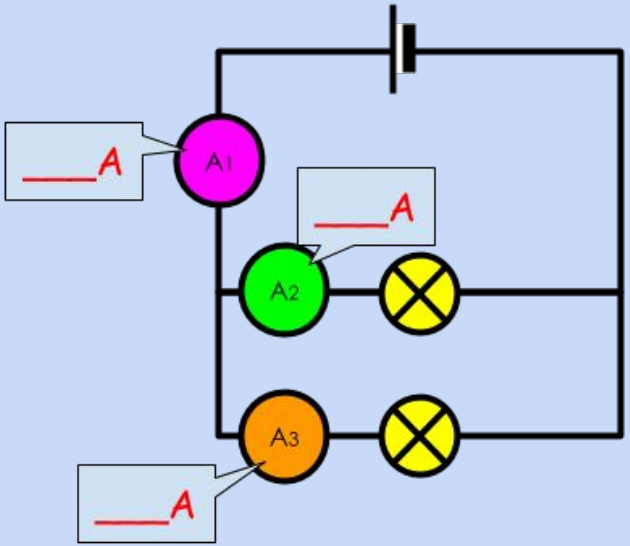
If the current through A_2 is 1.0A and the current through A_3 is 0.9A, what is the current through A_1?



___A = ___A + ___A

you do

If the current through A_1 is 1.8A and the current through A_2 is 0.9A, what is the current through A_3?



$A_1 = A_2 + A_3$

___A = ___A + ___A

you do

If the current through A_2 is 1.5A and the current through A_3 is 0.3A, what is the current through A_1?