Wheatestone bridge

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The aim of this experiment is to find the resistance of a resistor with the use of the Wheatestone bridge. For this experiment we need:

- one resistor (8Ω)
- three potentiometers
- one battery
- one galvanometer
- one unknown resistor

and some wires.

We then connected the components as shown in the figure below (fig 1).

We know that R_3 is 8Ω , and we set the two other potentiometers to 41.7Ω (R_2) and 58.3Ω (R_1). And then we just have to calculate:

 $R_4 = R_3 * R_1 / R_2 = 8 * 58.3 / 41.7 = 11.18 \Omega$

