Simple Circuits

Started: Jun 18 at 11:36am

Quiz Instructions

Please read the Lab Manual for the Lab "Simple Circuits" on pages 109 to 113 for the necessary information to answer the quiz questions. You have only one attempt.

Question 1 2 pts

Two resistors are connected in SERIES in a simple circuit. What is the total resistance of the resistors given the resistances: R_1 =8.2$k\Omega$, and R_2 =2.8$k\Omega$. Your answer should be given to the first decimal place and in $k\Omega$.

11.0000

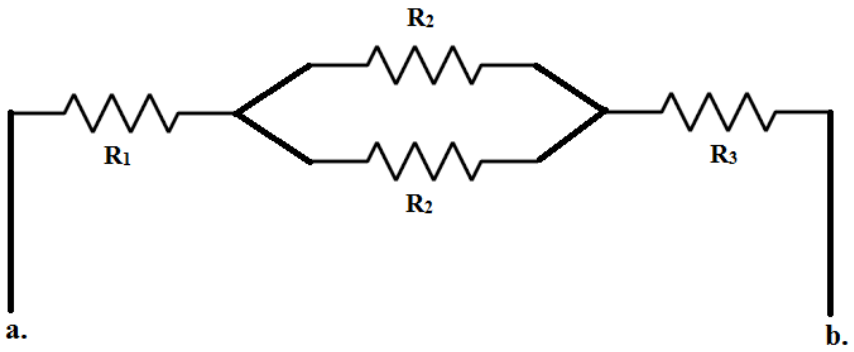
Question 2 2 pts

Two resistors are connected in PARALLEL in a simple circuit. What is the total resistance of the resistors given the resistances: R_1 =9.0$k\Omega$, and R_2 =3.0$k\Omega$. Your answer should be given to the second decimal place and in$k\Omega$.

0.0833

Question 3 3 pts

Given the resistor network above, calculate the total resistance the points a and b, where R_1 = 5.0 $k\Omega$, R_2 = 5.0 $k\Omega$ and R_3 = 3.0 $k\Omega$. Give your answer in $k\Omega$.

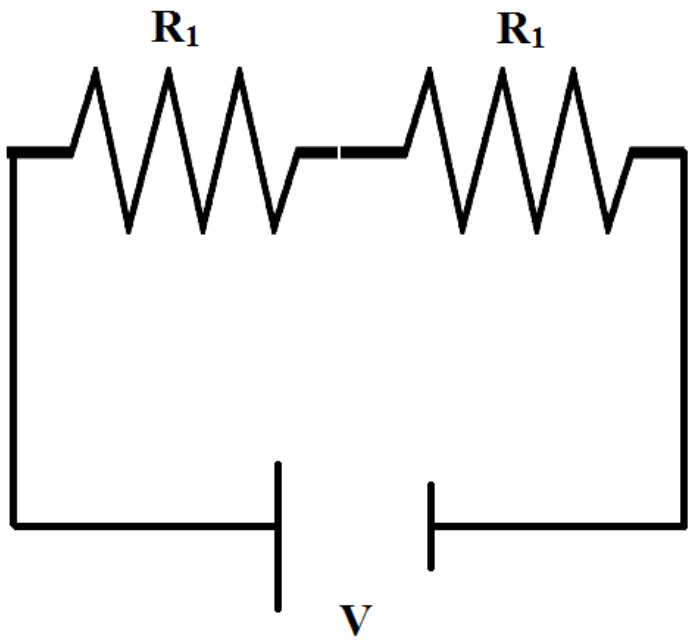


8.4000

Question 4

2 pts

Given the circuit below, calculate the total current flowing through the circuit. Where R_1 = 3.0$k\Omega$ and V = 3.0 Volts. Give your answer in miliamps, and round your answer to the second decimal place.



0.5000

Question 5 1 pts

How will the multimeter be wired into the circuit to measure voltage across a resistor, in parallel or in series?

- (•) Parallel
- ( ) Series

No new data to save. Last checked at 12:49pm

Submit Quiz