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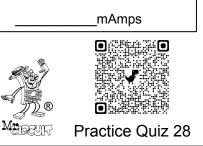
LESSON 28 Measuring Current with 6800 Ω

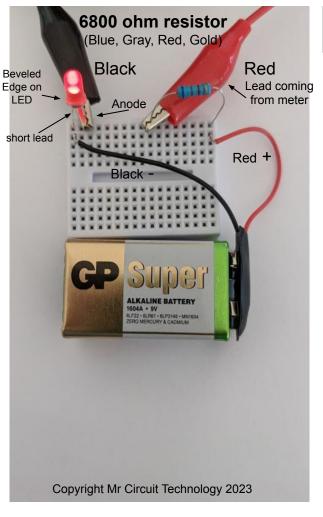
Using the meter setup procedure as explained in Lesson 23, build this circuit with a 6800 ohm resistor and measure the current.

Use the picture on the right to help you build the circuit. Use meter probe tips instead of alligator clips to complete the circuit.

As you touch the tips to the circuit, observe the meter display to see how much current is flowing.

Our meter shows 1.11 mAmps. How much current is flowing in "your" circuit?





Multimeter set up as an Ammeter to measure current (on 20 mA scale)



showing 1.11 mA of current flowing

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		LAD MANUAL 1201 - Faye 09
Answer these questions	Activity Page	Comparing the current in a circuit with 6800 Ω28b
(1) Are the short lead and the beveled edge, on an LED, on the same side of the LED?	(5) What is maximum amount of current the meter can read when it is on this position or scale?	(9) How many milliAmps is it showing on the multimeter display on page 28a?
(2) What color lead is connected to the COM on the multimeter?	(6) True or False? The more ohms in the series circuit, the dimmer the LED.	(10) How many milliAmps was showing on your multimeter display when you built this new circuit?
(3) What color lead is connected to the V Ω mA jack?	(7) True or False? Lessons 26, 27 and 28 demonstrate that as the	Ammeter
(4) If we use the nominal value for the battery as 9V and the resistor as 470 ohms and the LED as 111 ohms (2V/0.018A),	ohms change in a series circuit, it affects the amount of current flowing in the circuit?	(Black Lead on Meter) - A + (Red Lead on Meter)
what should the amount of current flowing in the circuit be? R total = $470 + 111 = 581$ Hint: I = E/R I = 9/581	(8) If you give an LED too much voltage causing too much current to flow, the LED will probably:?	Battery
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