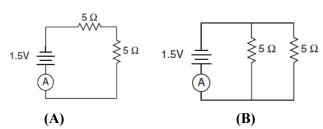
Problem set I	
Period:	



- **1.** Which of the circuits above represents two 5-ohm resistors connected in series with an ammeter (which measures current) and a battery?
 - (A) A

NAME:

- (B) B
- (C) Both A and B
- (D) Neither A nor B

Answer:

Justification with a fact:

In the first circuit, there is only one path for the electricity to follow, so it is in series. In the second circuit, there are junctions which represent parallel circuits.

Questions 2 through 5: A 100 V battery is connected to a 70-ohm resistor and a 30-ohm resistor in series.

2. Calculate the equivalent resistance of the resistors.

Answer:____

Justification with a fact:

3.	Which resistor carries a larger current? (A) The 70-ohm resistor (B) The 30-ohm resistor (C) Both carry the same current
	Answer:
	Justification with a fact:
4.	Which resistor takes the larger voltage across it? (A) The 70-ohm resistor
	(B) The 30-ohm resistor
	(C) Both have the same voltage across them
	Answer:
	Justification with an equation or a false calculation:
5.	Calculate the total current in the circuit.
	Answer:
	Justification with a calculation, including a table of values with units: