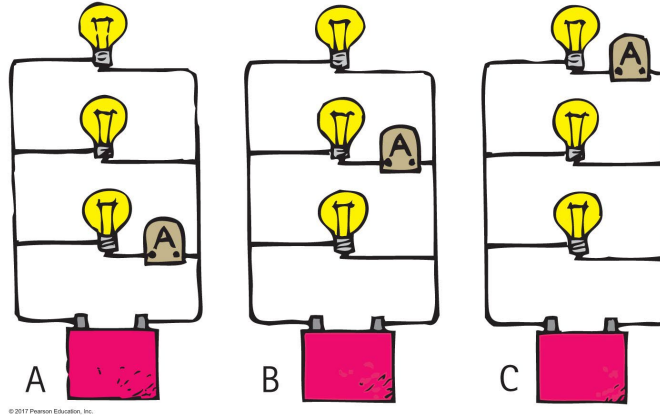


## Astronomy Ranking Task: Ohm's Law

### Exercise #7

**Description:** There are three circuits, labeled A – C, each with one battery, multiple branches for current to follow, an ammeter labeled “A”, and the number of bulbs as shown. The bulbs are all identical, as are the batteries. Assume the batteries have no internal resistance and the meters do not affect *anything*.



**A. Ranking instructions:** Rank the amounts of current reading on each ammeter.

Ranking Order: Greatest 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ Least

Or, each ammeter reads the same amount of current. \_\_\_\_\_ (indicate with a check mark)

**Carefully explain** your reasoning for ranking this way:

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