

## ConceptTest 26.2a

## Parallel Resistors I

In the circuit below, what is the current through  $R_1$ ?

1) 10 A

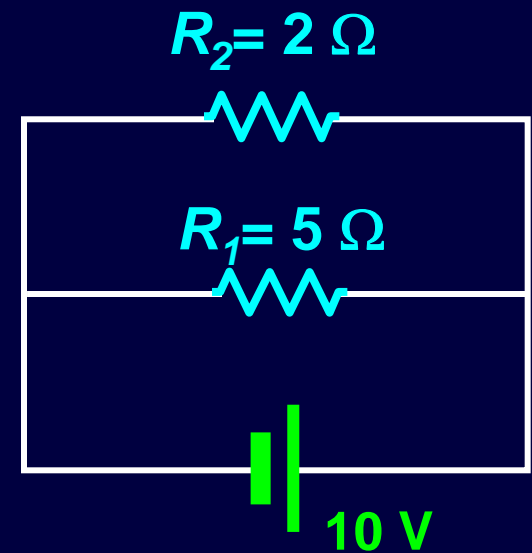
2) zero

3) 5 A

4) 2 A

5) 7 A

The **voltage** is the **same** (10 V) across each resistor because they are in parallel. Thus, we can use Ohm's Law,  $V_1 = I_1 R_1$  to find the current  $I_1 = 2$  A.



**Follow-up:** What is the total current through the battery?