**4.** The current (*I*) in an electrical circuit varies inversely with the resistance (*R*). This relationship can be represented by the formula

$$I = \frac{V}{R}$$

where V is a constant voltage that needs to be determined. If the current in a circuit is 35 amps when the resistance is 12 ohms ( $\Omega$ ), what would the current be if the resistance is 35  $\Omega$ ?

- **A.** 12 amps
- **B.** 102 amps
- **C.** 420 amps
- **D.** 1,225 amps