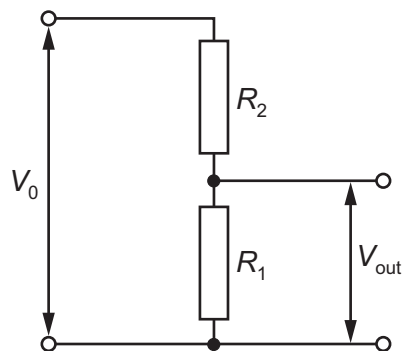


- 35** A potential divider consists of resistors of resistance  $R_1$  and  $R_2$  connected in series across a source of potential difference  $V_0$ . The potential difference across  $R_1$  is  $V_{\text{out}}$ .



Which changes to  $R_1$  and  $R_2$  will increase the value of  $V_{\text{out}}$ ?

	$R_1$	$R_2$
<b>A</b>	doubled	doubled
<b>B</b>	doubled	halved
<b>C</b>	halved	doubled
<b>D</b>	halved	halved

- 36** An extension lead is used to connect a 240V electrical supply to a heater as shown