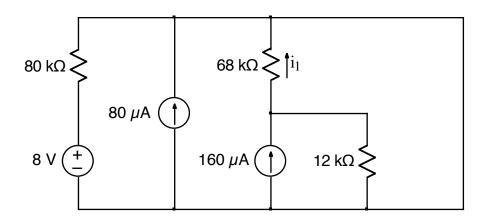
EXAMPLE 1

Ex:



Calculate i₁.

soln: We have a current divider consisting of the 160 MA arc and the 68ks and 12 ks resistors.

$$i_1 = \frac{160 \, \mu A \cdot 12 \, k \Omega}{12 \, k \Omega + 68 \, k \Omega}$$
$$= \frac{160 \, \mu A \cdot 12 \, k \Omega}{80 \, k \Omega}$$

Note: The 12k1 and 6Bk1 resistors are parallel since they connected by wires at either end.

We know the total current flowing into the 12ks and 68ks resistors, and the resistors have the same voltage across them.