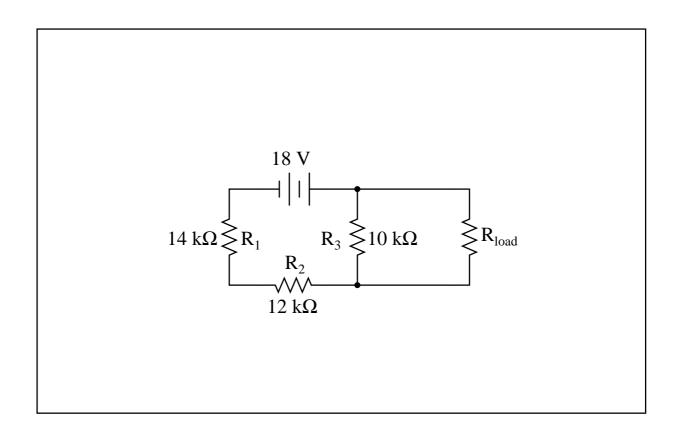
Question 1

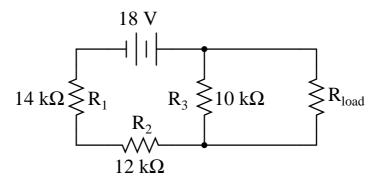
### Animation: Applying Thévenin's theorem

This question consists of a series of images (one per page) that form an animation. Flip the pages with your fingers to view this animation (or click on the "next" button on your viewer) frame-by-frame.

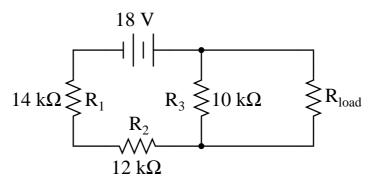
The following animation shows the steps involved in "Thévenizing" a circuit.



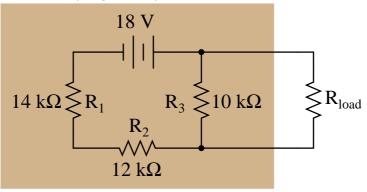
### This is our original circuit:



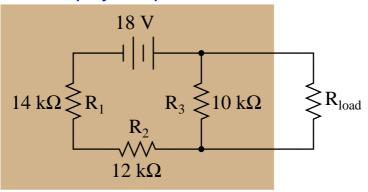
# We may use Thevenin's theorem to simplify this portion of the circuit . . .



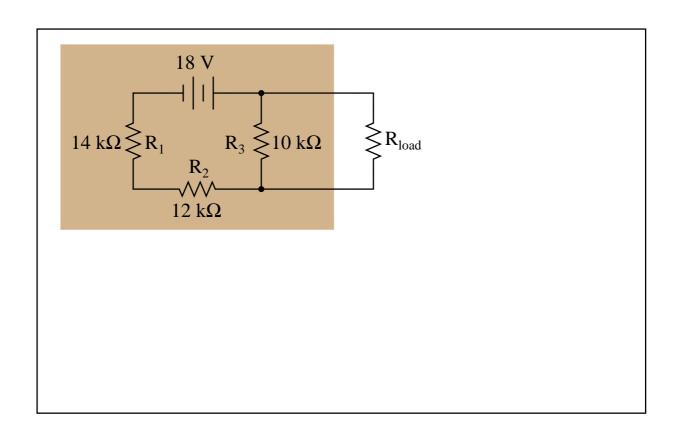
# We may use Thevenin's theorem to simplify this portion of the circuit . . .

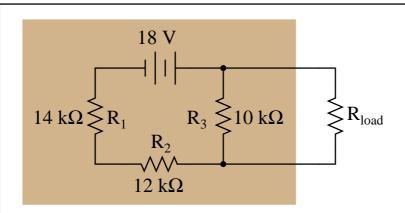


# We may use Thevenin's theorem to simplify this portion of the circuit . . .

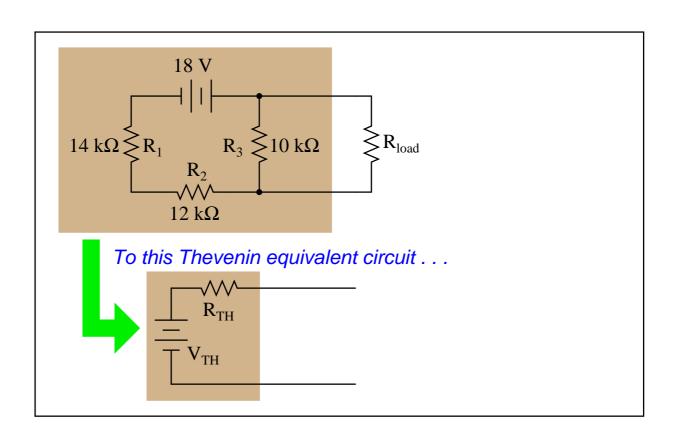


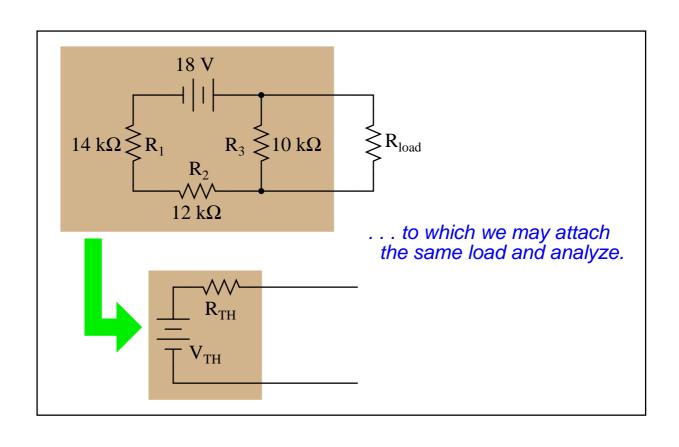
# We may use Thevenin's theorem to simplify this portion of the circuit . . . 18 V $14 \text{ k}\Omega \geqslant R_1 \qquad R_3 \geqslant 10 \text{ k}\Omega$ $12 \text{ k}\Omega$

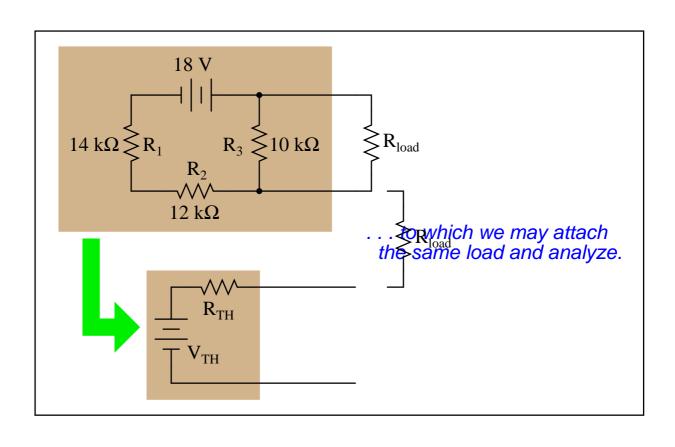


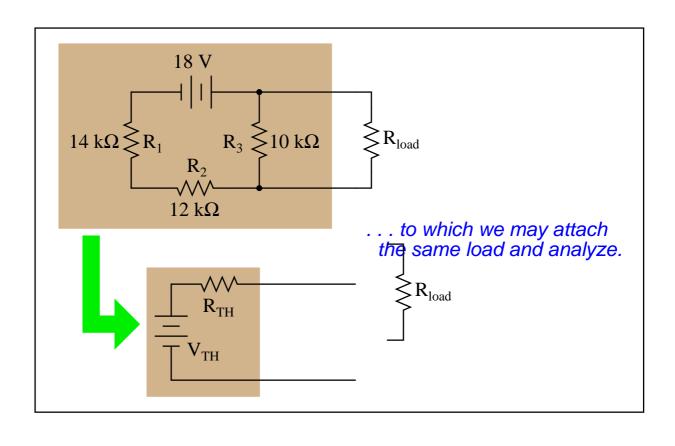


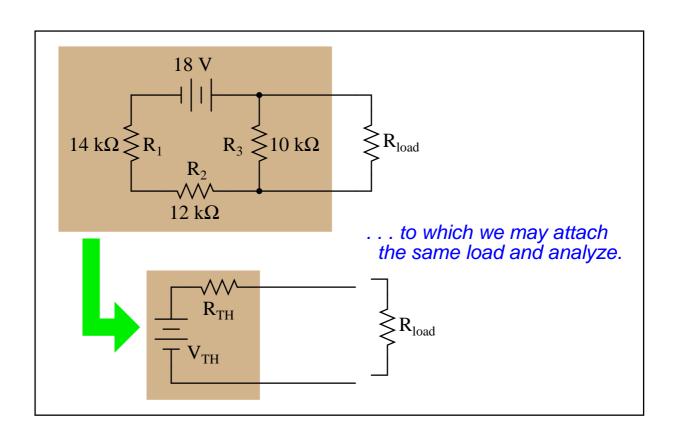
To this Thevenin equivalent circuit . . .

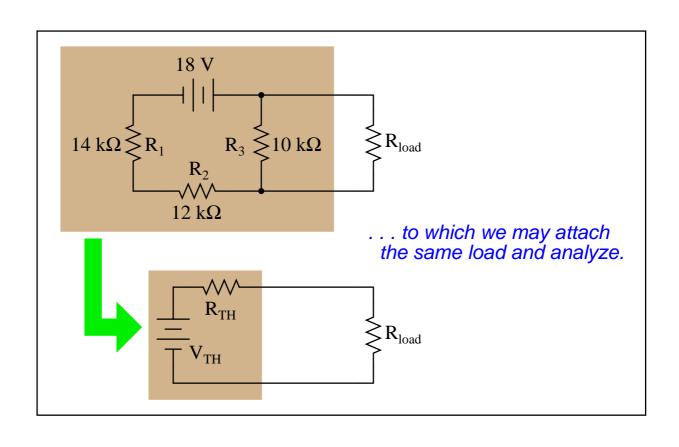


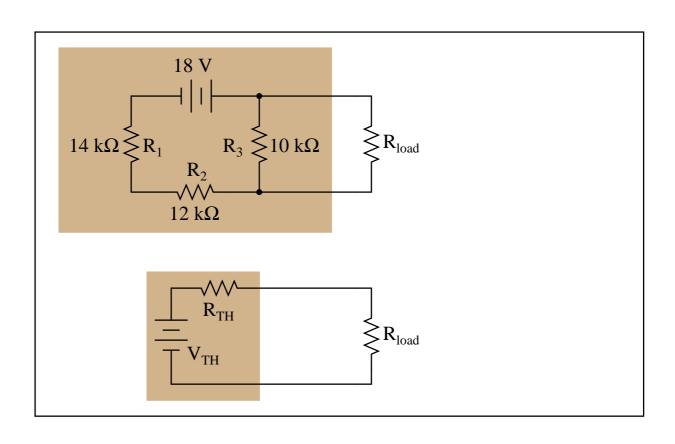


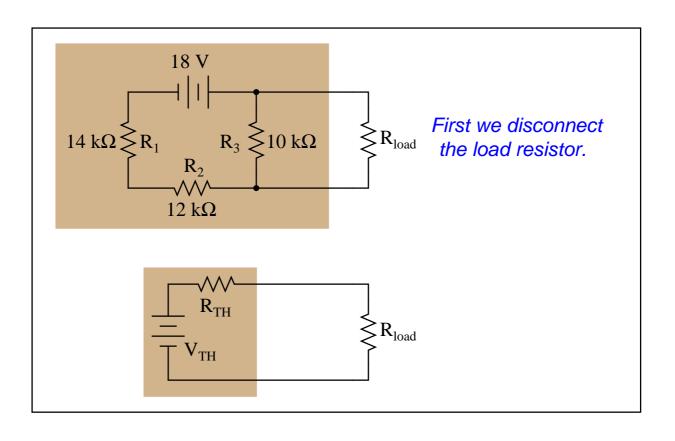


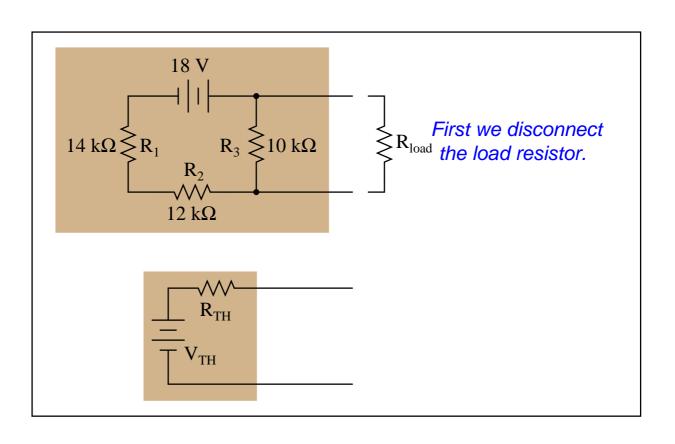


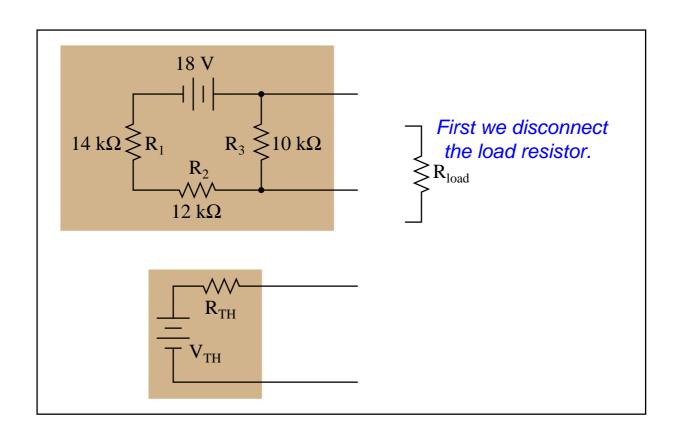


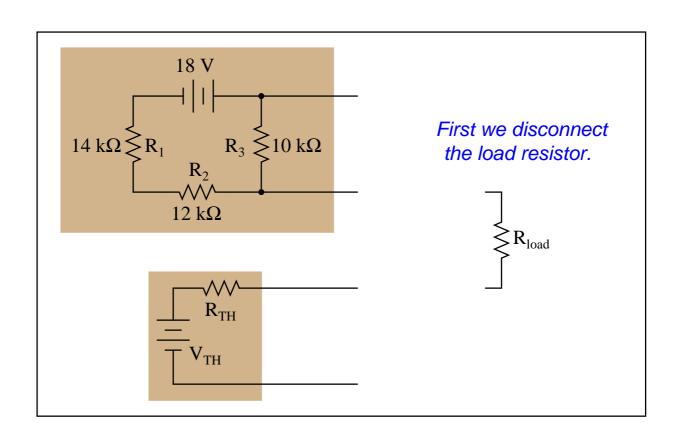


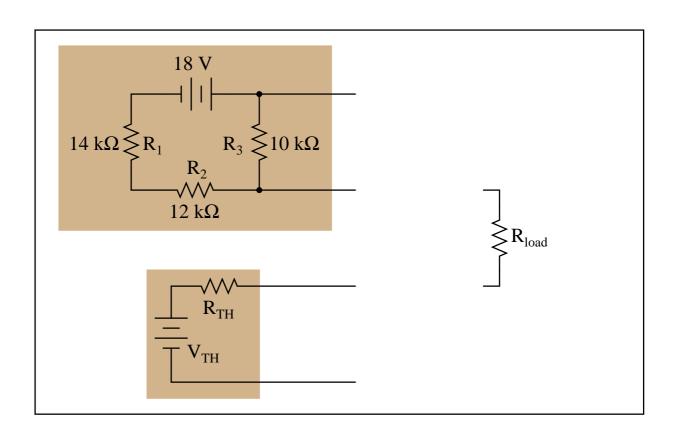


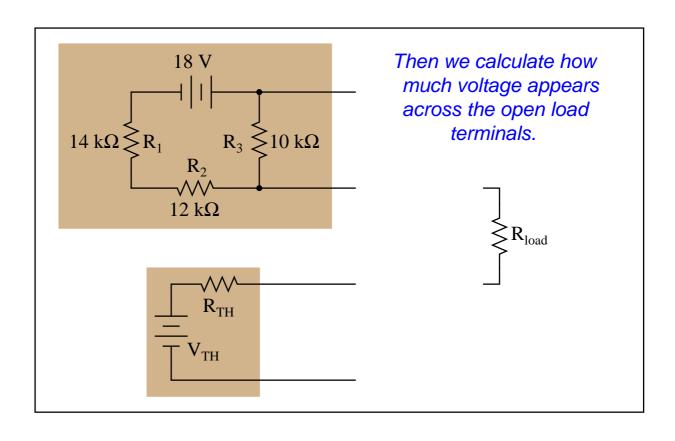


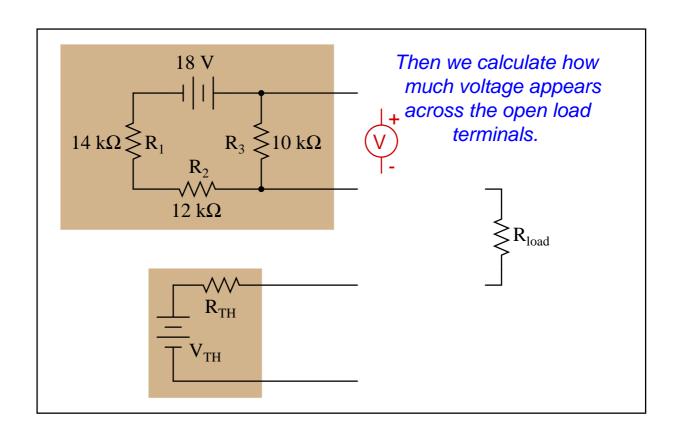


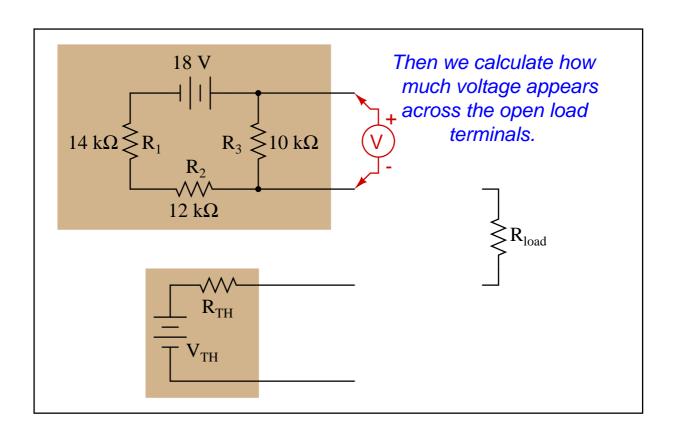


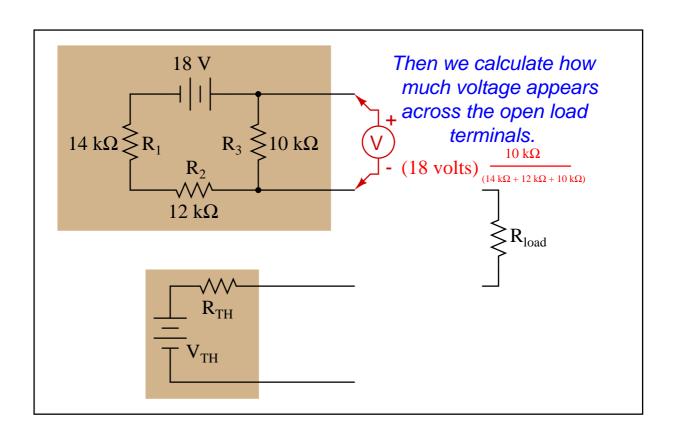


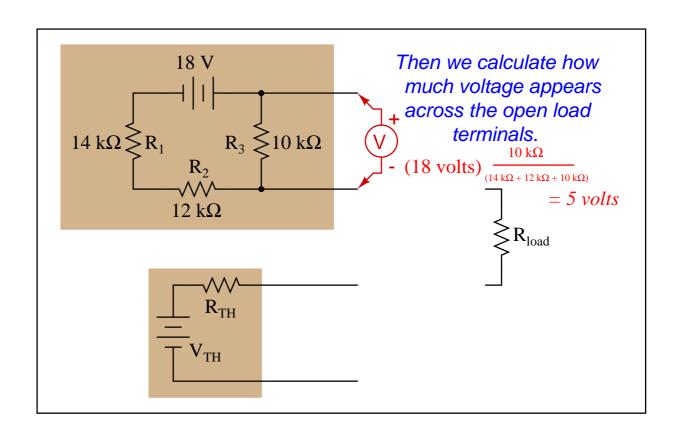


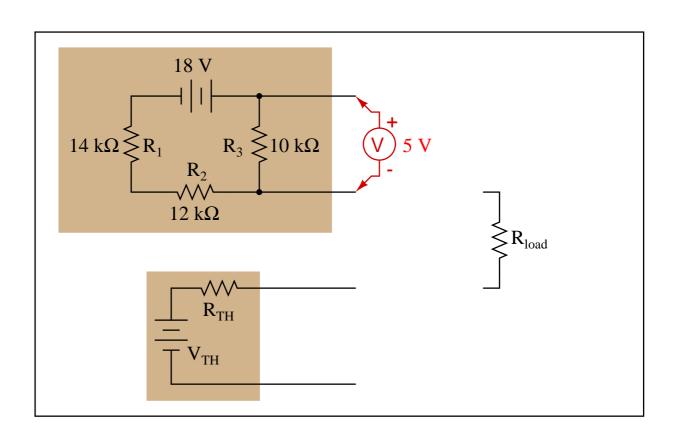


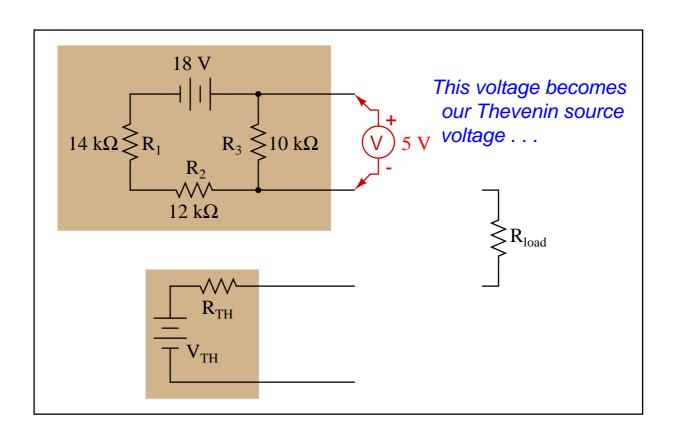


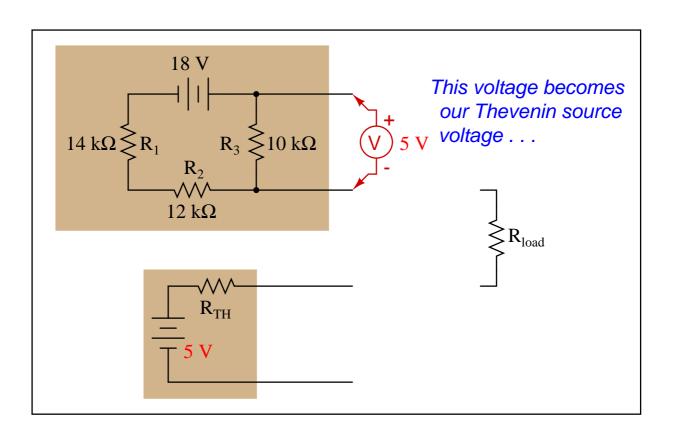


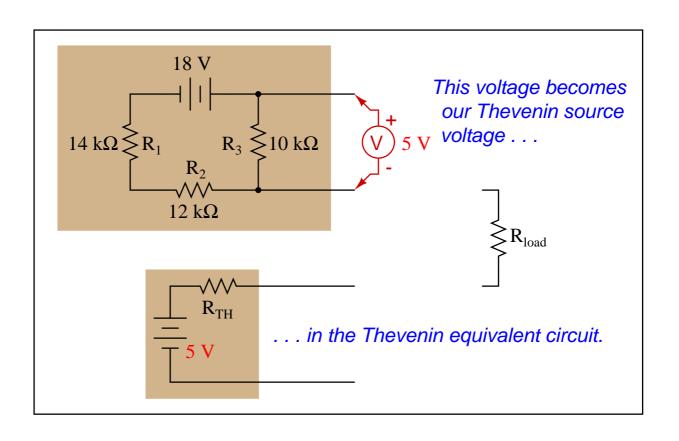


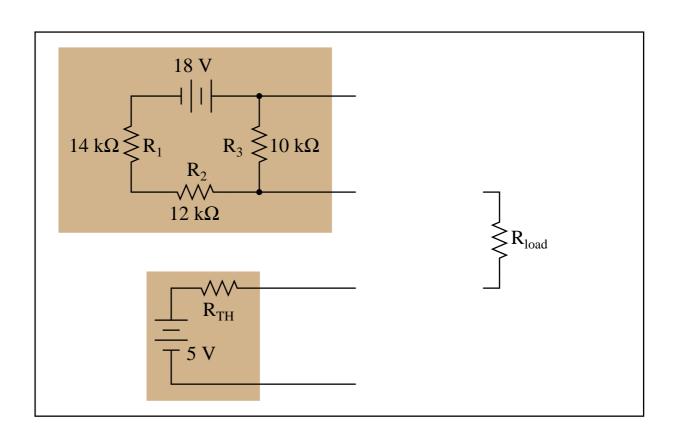


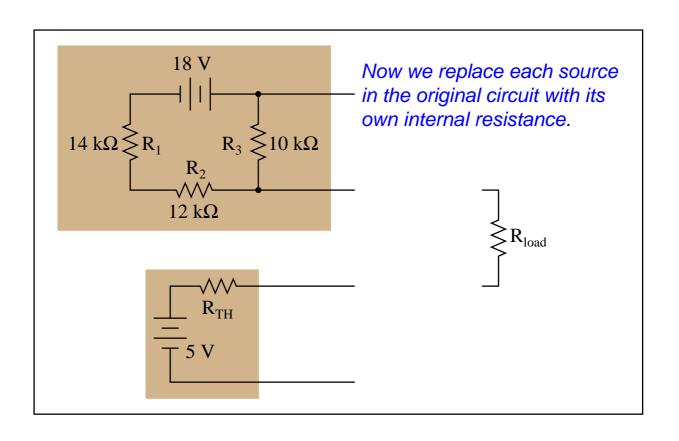


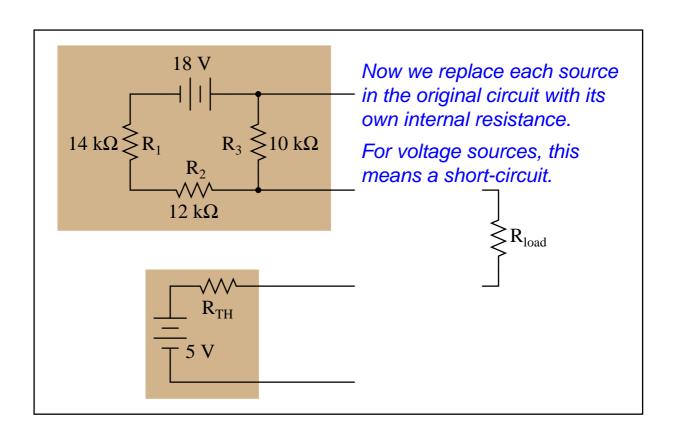


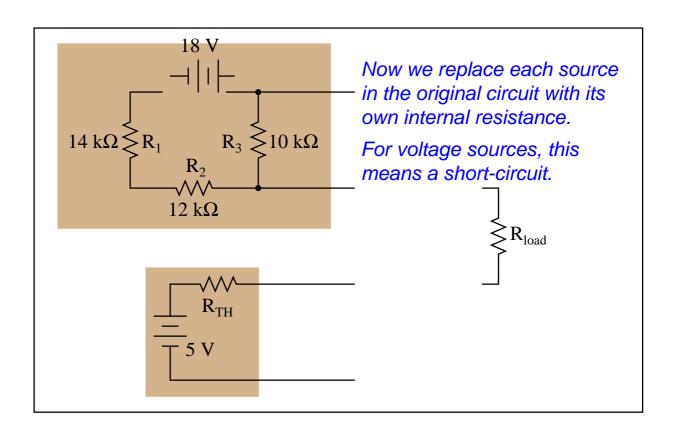


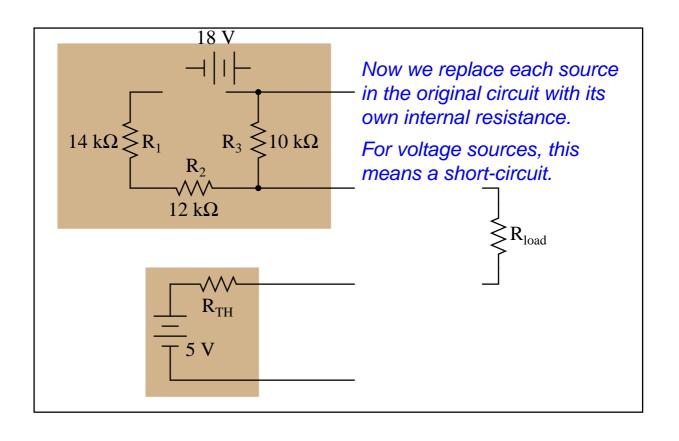


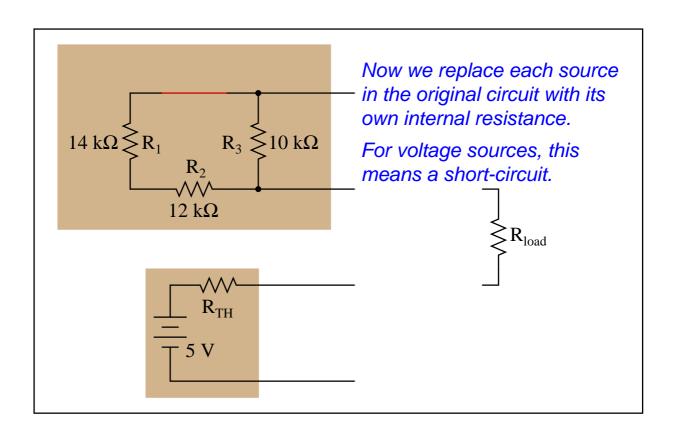


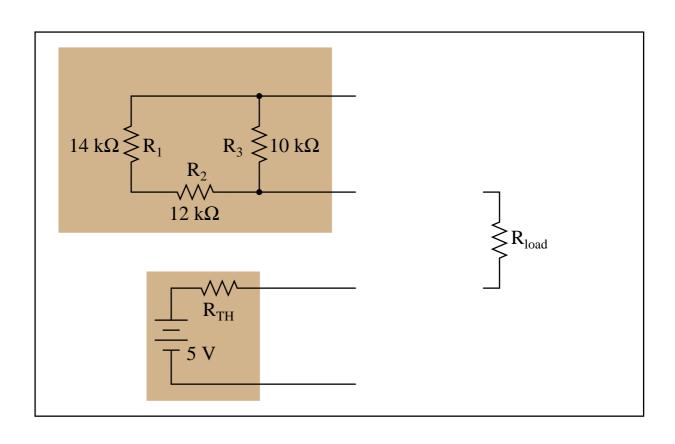


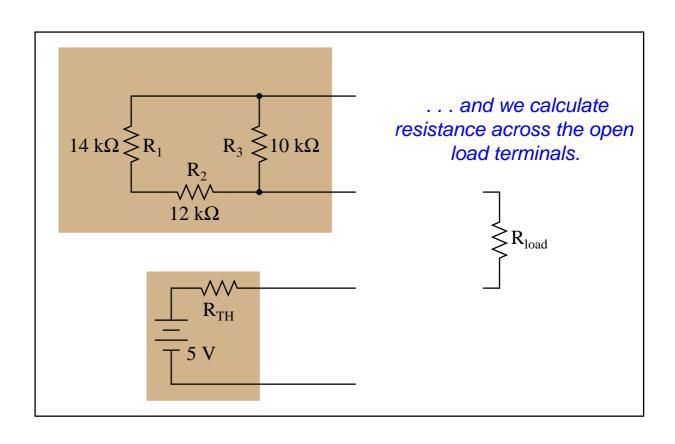


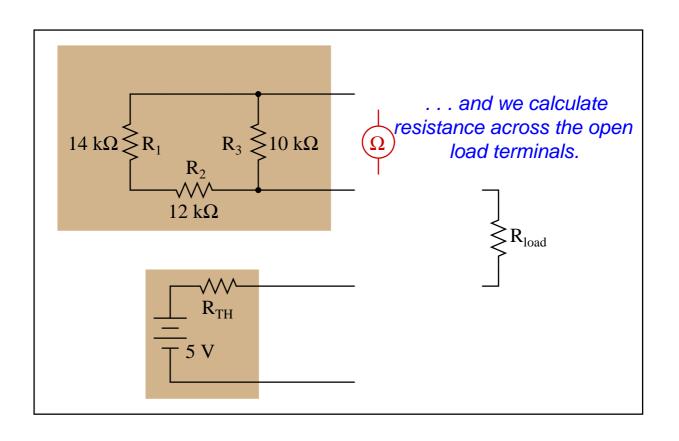


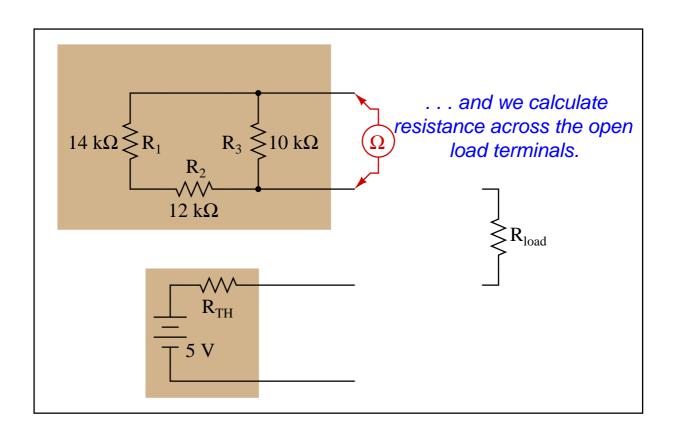


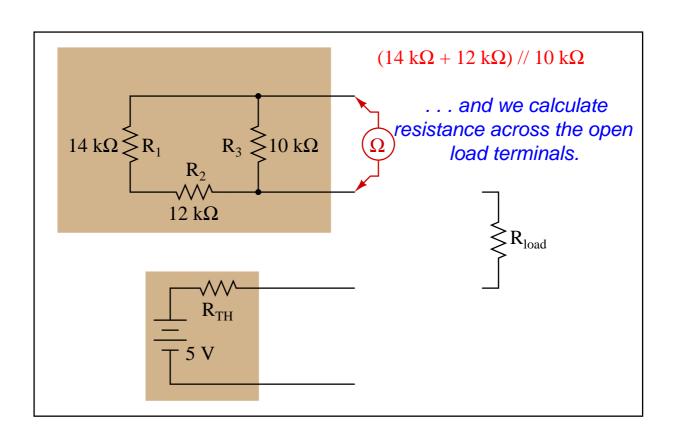


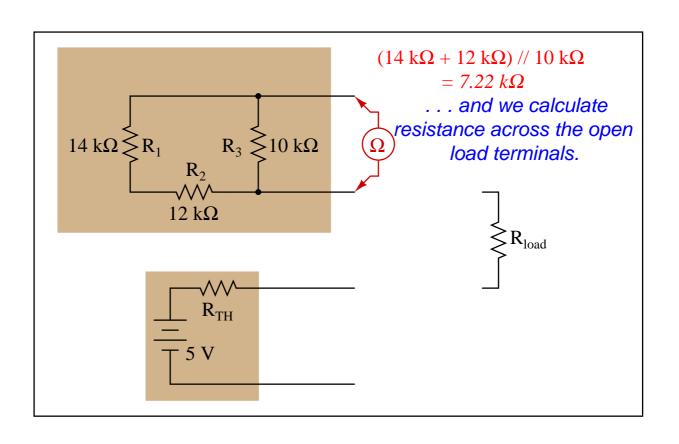


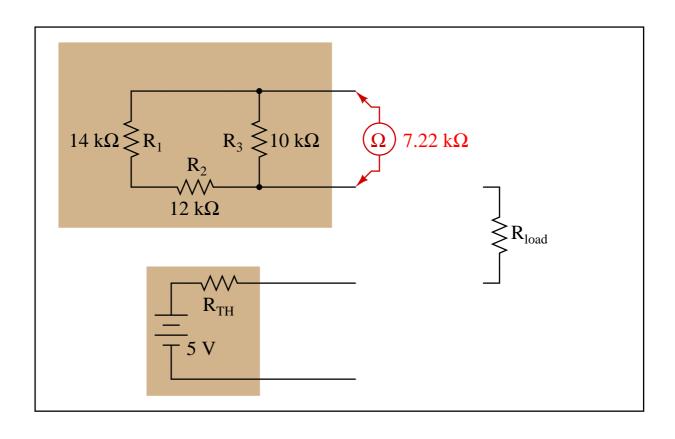


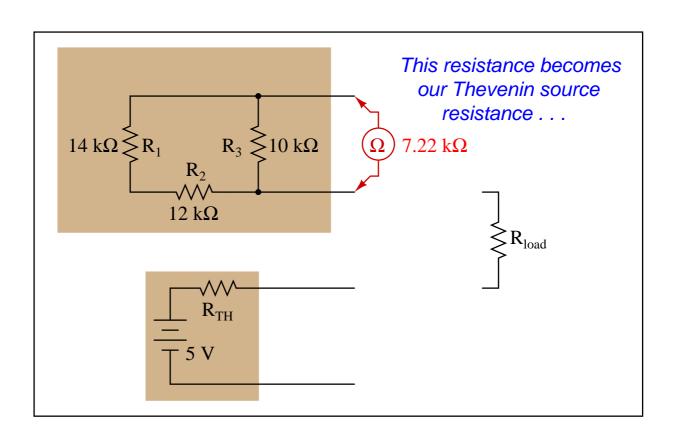


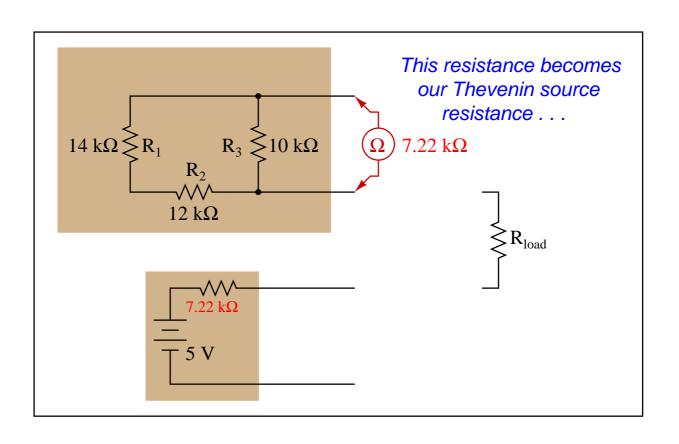


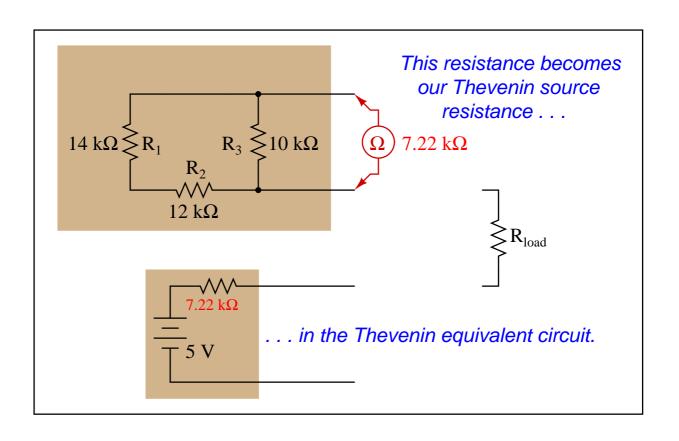


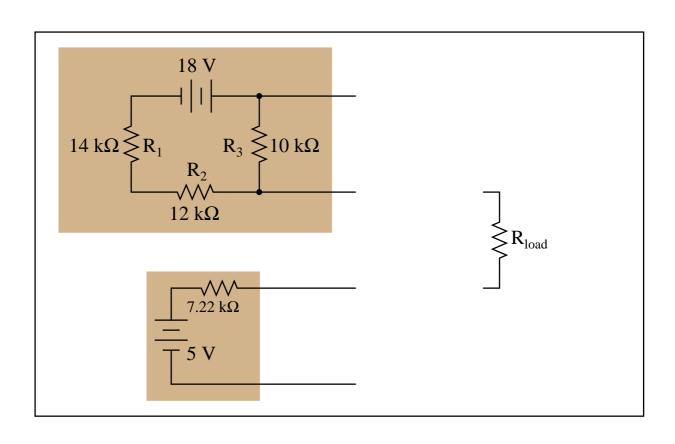


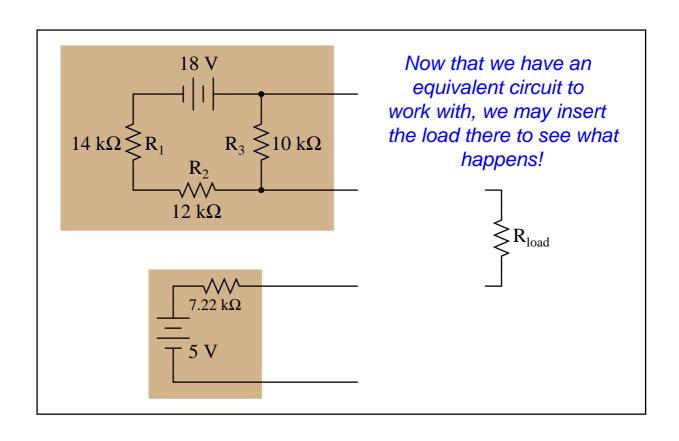


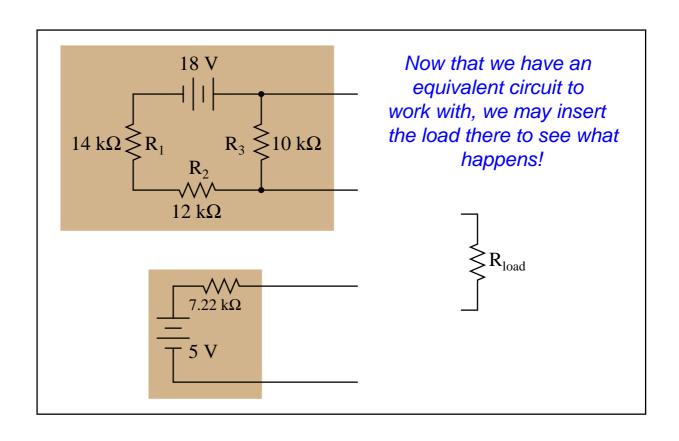


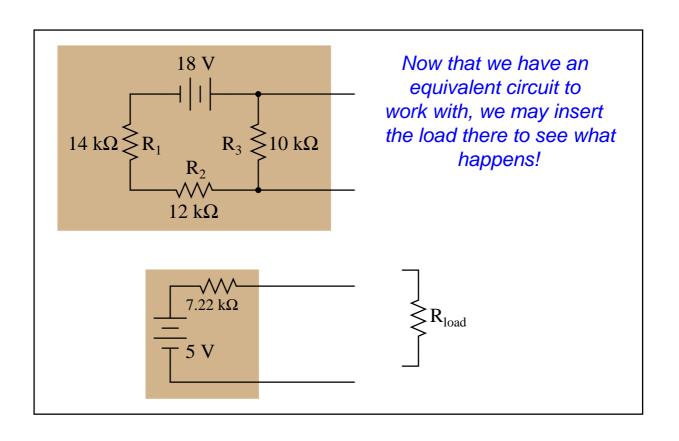


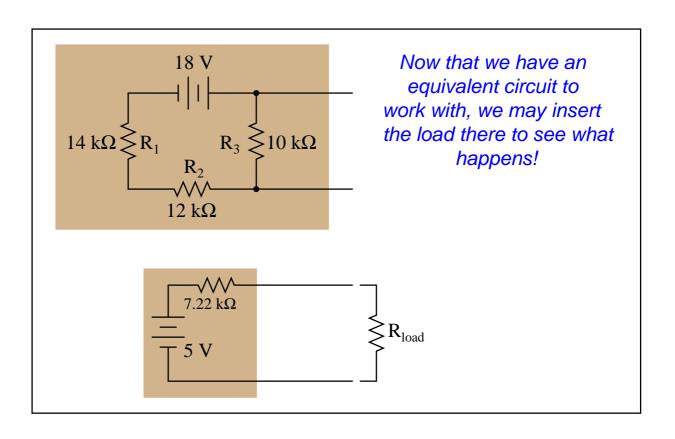


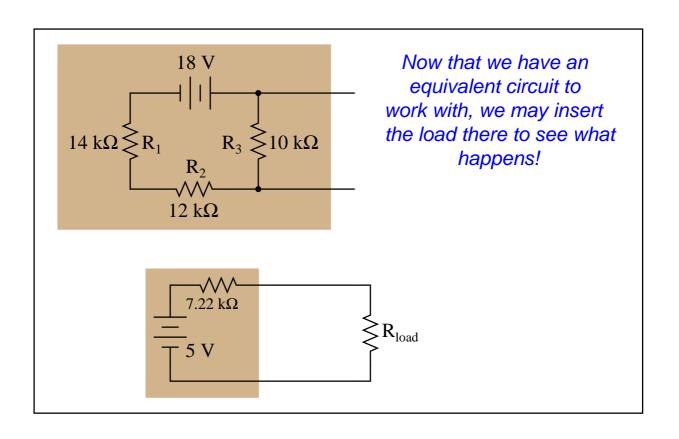


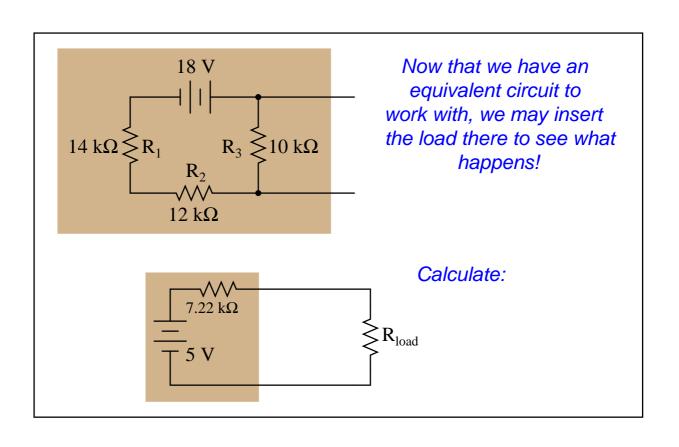


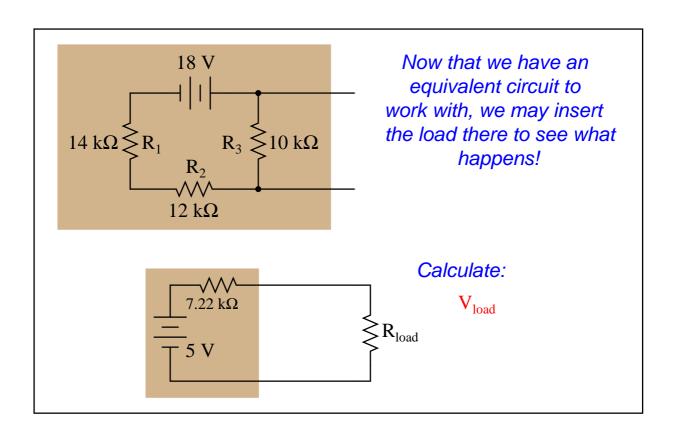


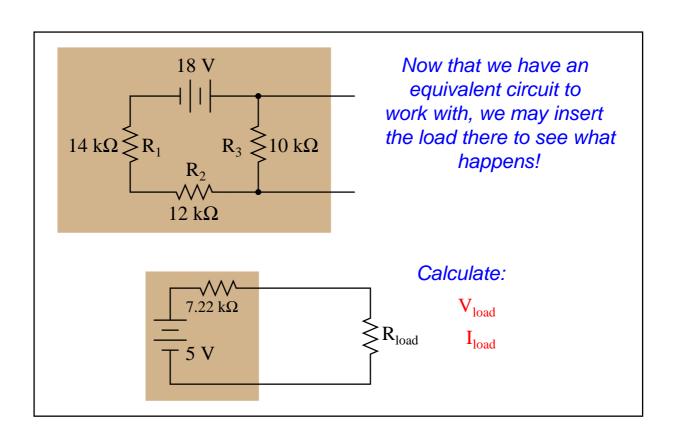


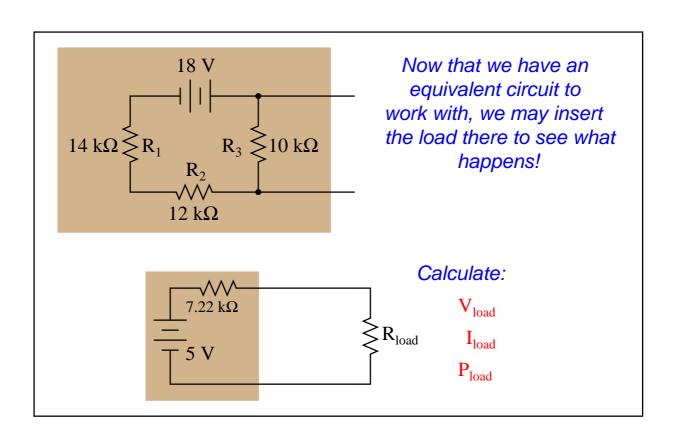


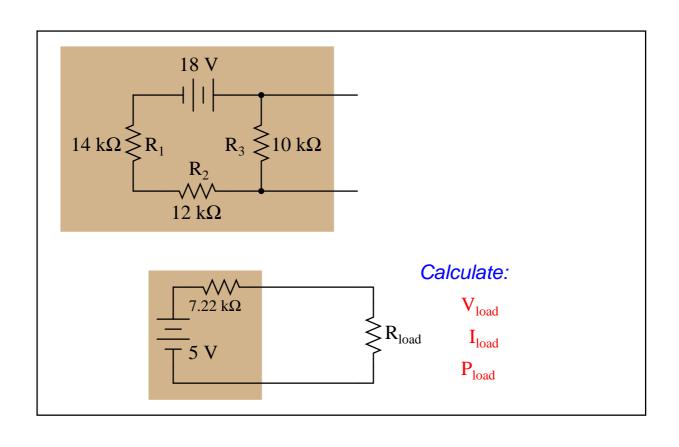


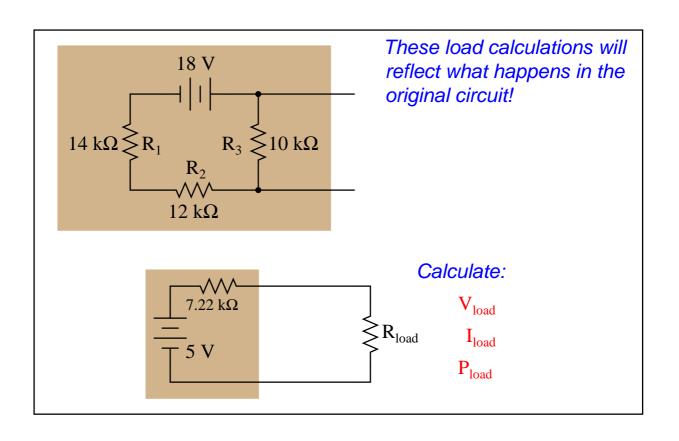


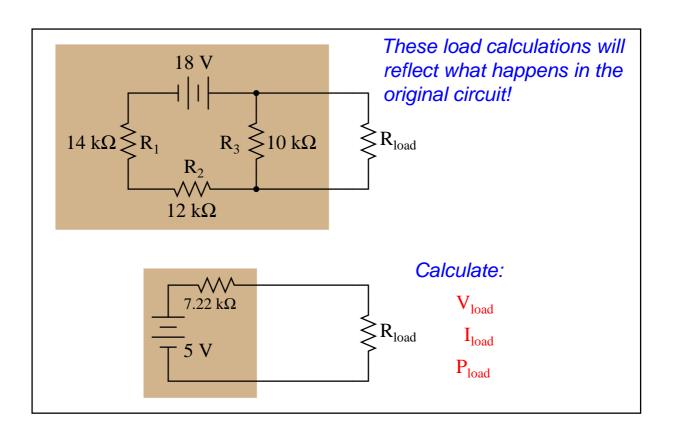


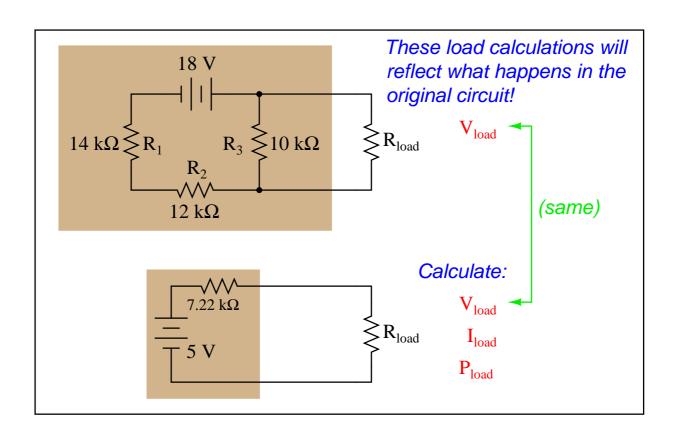


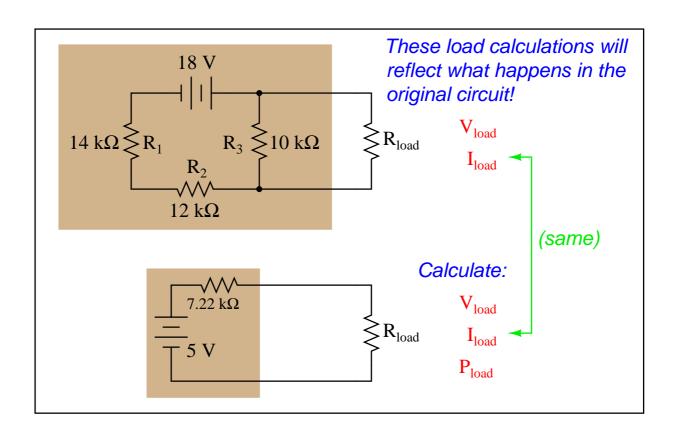


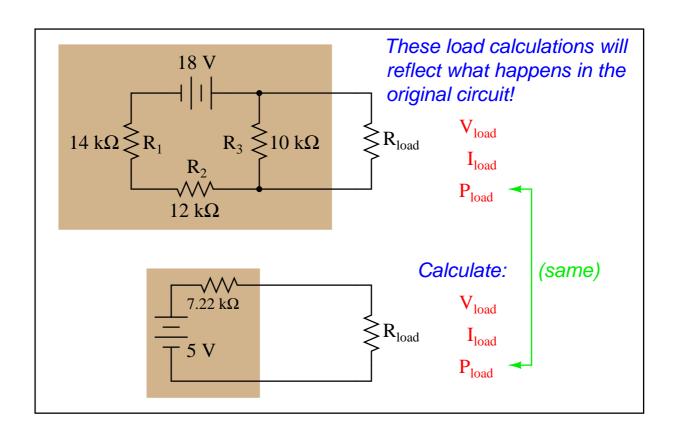


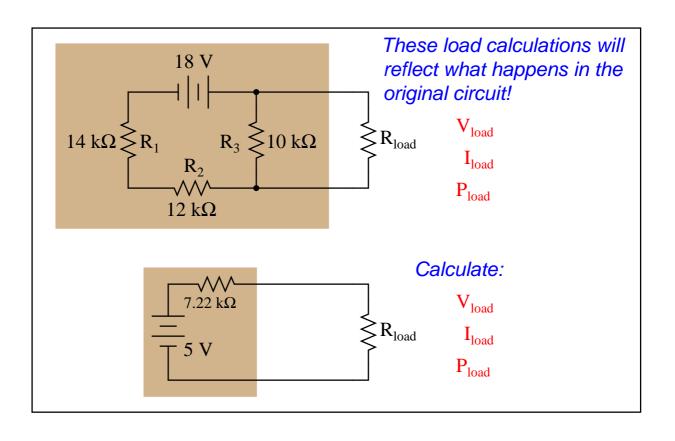


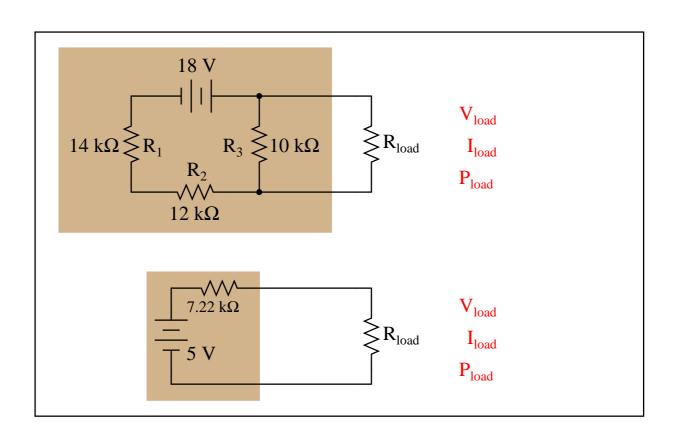


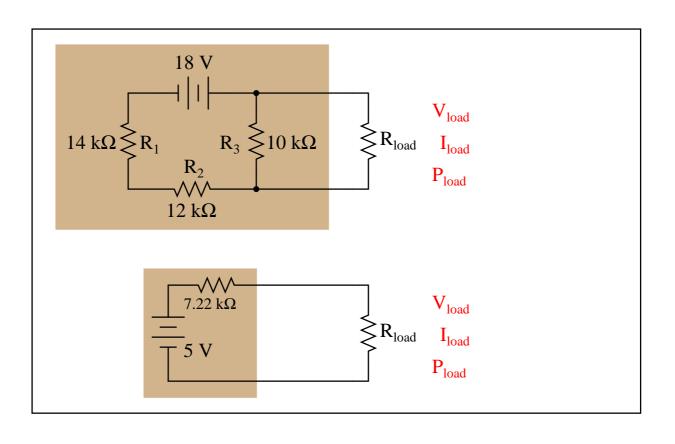


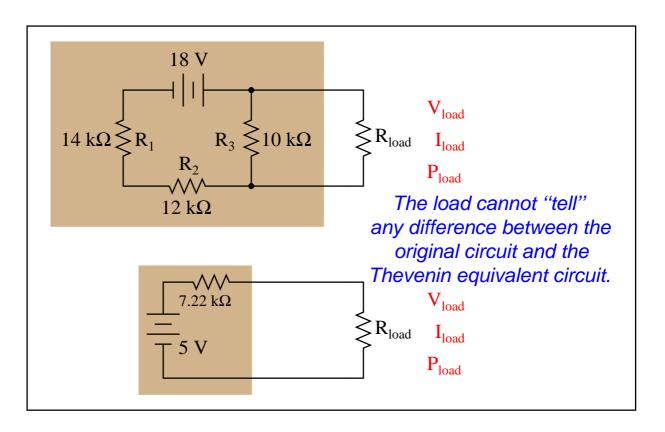












file 03261

## Answers

## $\overline{\text{Answer 1}}$

Nothing to note here.

## ${\bf Notes}$

## Notes 1

The purpose of this animation is to let students see how Thévenin's theorem may be applied to the simplification of a resistor network.