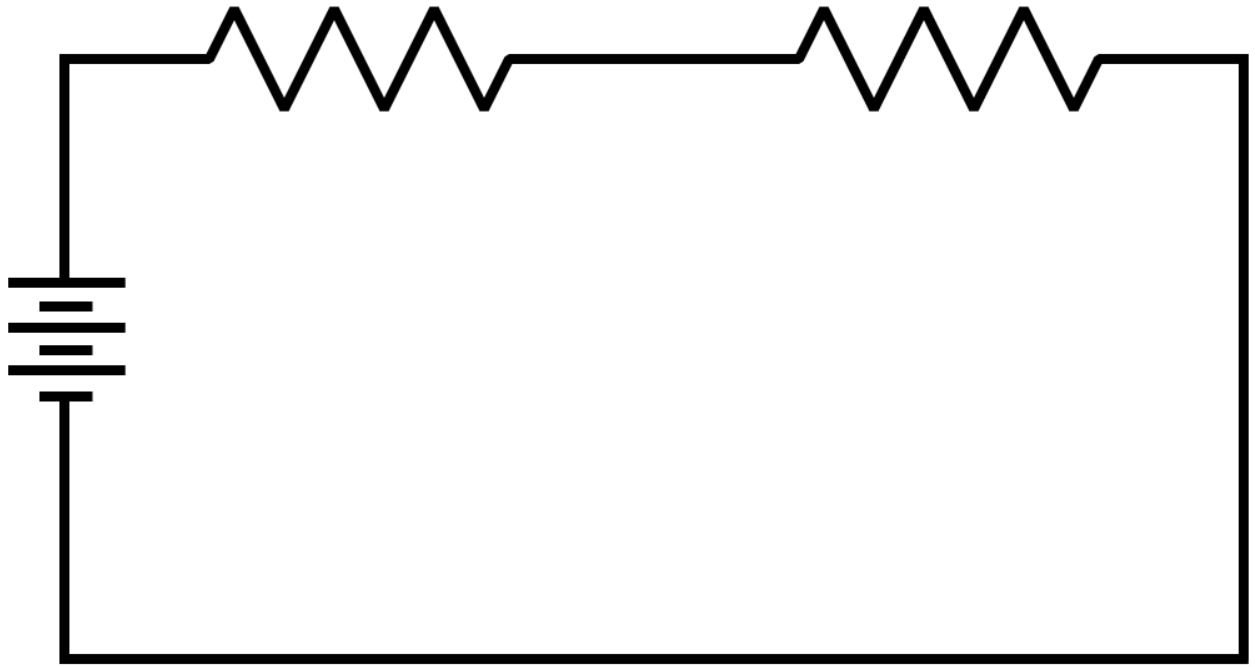
Series Circuit Math - Example 5

Series Example 5



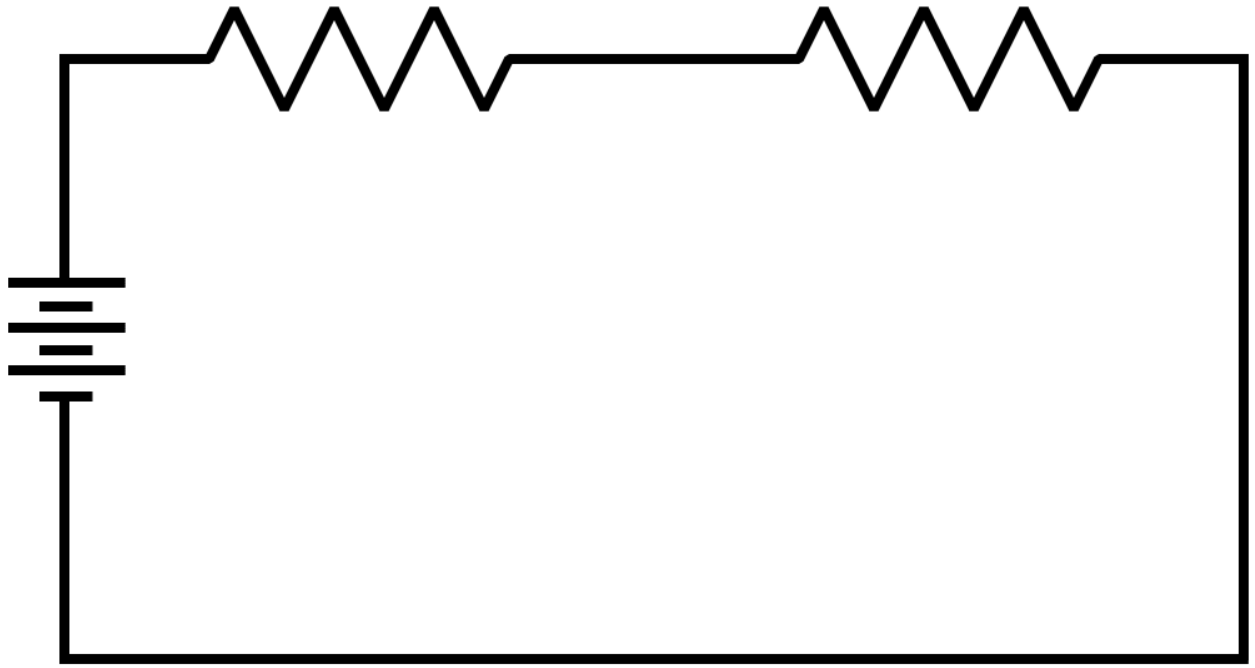
$I_T = 1.25$ Amps $R_T = 96$ Ohms $R_1 = 3.68$ Ohms

Find All Values of E, I and R using Ohm's Law and Series Rules

Series Example 5

$P_1 =$
$E_1 =$
$I_1 =$
$R_1 = 3.68$ Ohms

$P_2 =$
$E_2 =$
$I_2 =$
$R_2 =$



$P_T =$
$E_T =$
$I_T = 1.25$ Amps
$R_T = 96$ Ohms

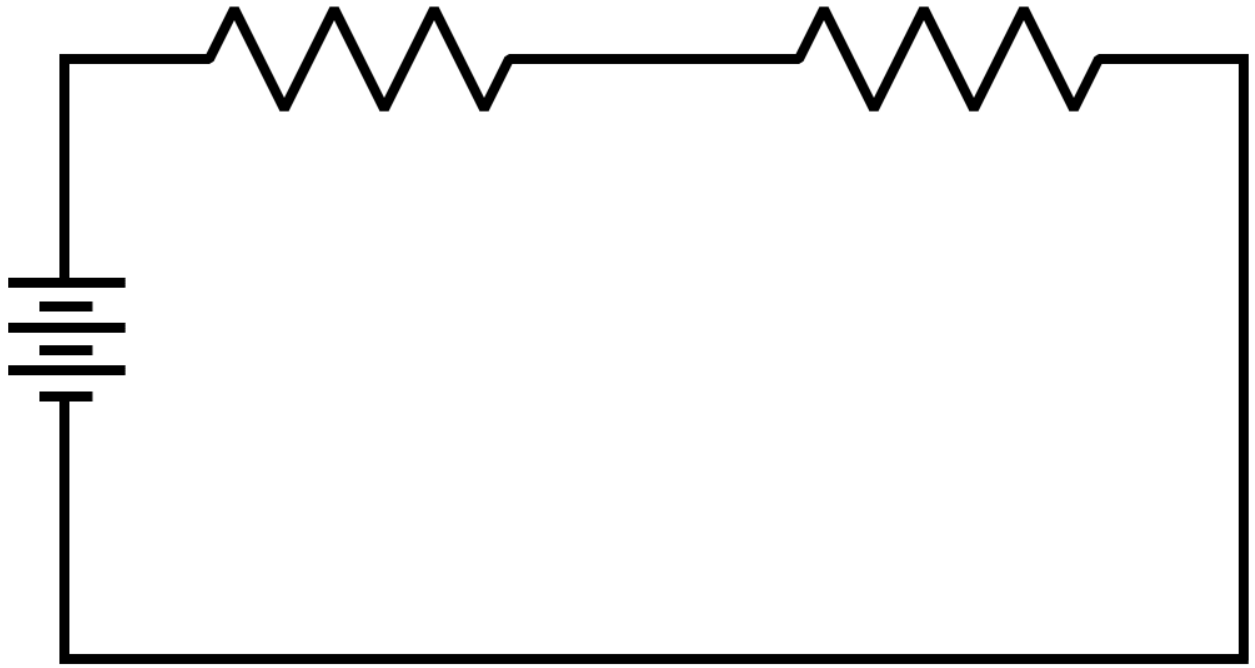
$I_T = 1.25$ Amps $R_T = 96$ Ohms $R_1 = 3.68$ Ohms

Find All Values of E, I and R using Ohm's Law and Series Rules

Series Example 5

$P_1 =$
$E_1 =$
$I_1 =$
$R_1 = 3.68$ Ohms

$P_2 =$
$E_2 =$
$I_2 =$
$R_2 =$



$P_T = 150$ Watts
$E_T = 120$ Volts
$I_T = 1.25$ Amps
$R_T = 96$ Ohms

$I_T = 1.25$ Amps $R_T = 96$ Ohms $R_1 = 3.68$ Ohms

Find All Values of E, I and R using Ohm's Law and Series Rules

Series Example 5

$P_1 =$

$E_1 =$

$I_1 = 1.25$ Amps

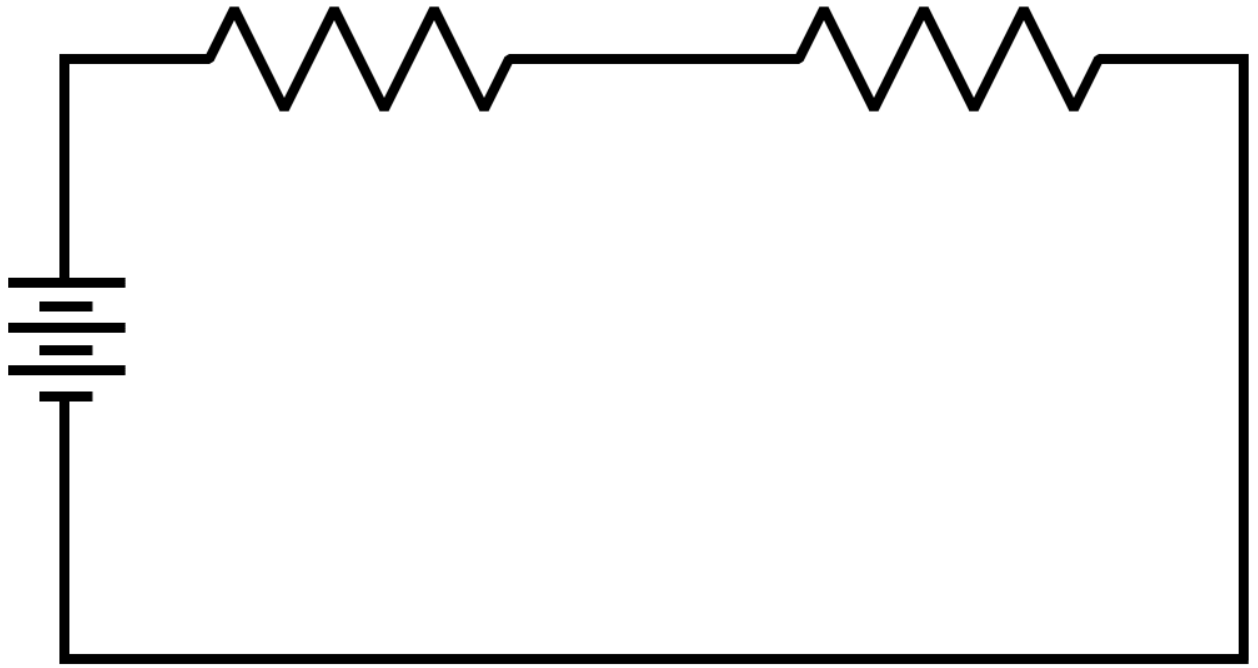
$R_1 = 3.68$ Ohms

$P_2 =$

$E_2 =$

$I_2 = 1.25$ Amps

$R_2 =$



$P_T = 150$ Watts

$E_T = 120$ Volts

$I_T = 1.25$ Amps

$R_T = 96$ Ohms

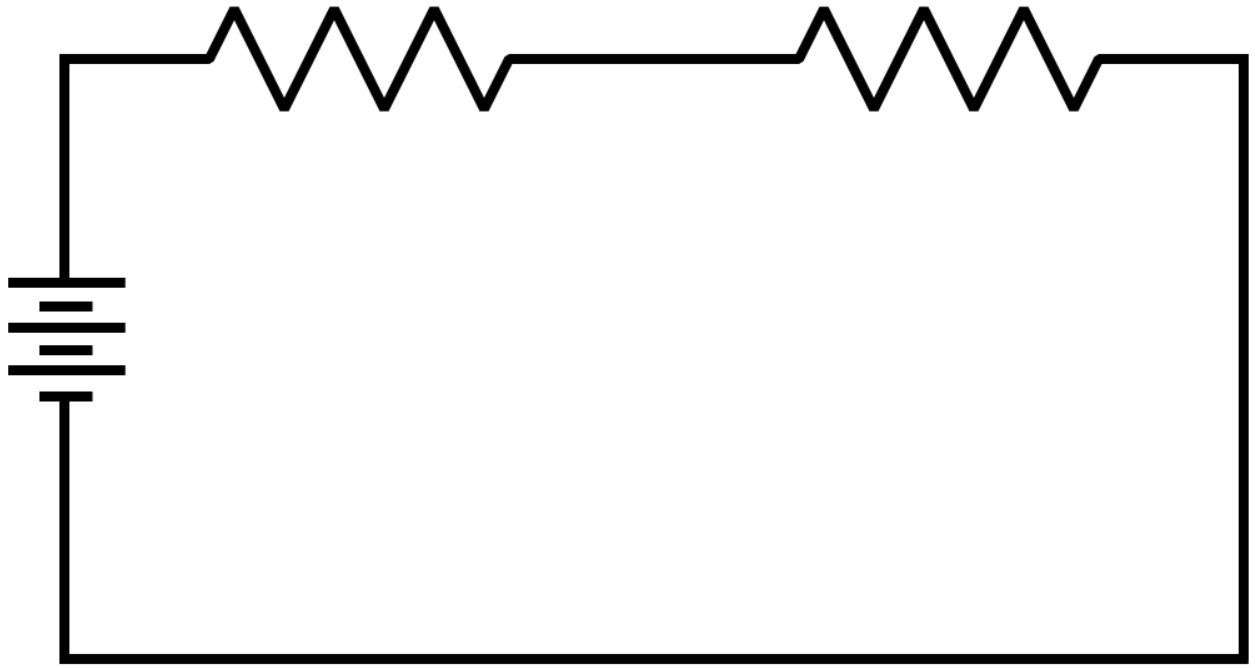
$I_T = 1.25$ Amps $\quad R_T = 96$ Ohms $\quad R_1 = 3.68$ Ohms

Find All Values of E, I and R using Ohm's Law and Series Rules

Series Example 5

$P_1 = 5.75$ Watts
$E_1 = 4.6$ Volts
$I_1 = 1.25$ Amps
$R_1 = 3.68$ Ohms

$P_2 =$
$E_2 =$
$I_2 = 1.25$ Amps
$R_2 =$



$P_T = 150$ Watts
$E_T = 120$ Volts
$I_T = 1.25$ Amps
$R_T = 96$ Ohms

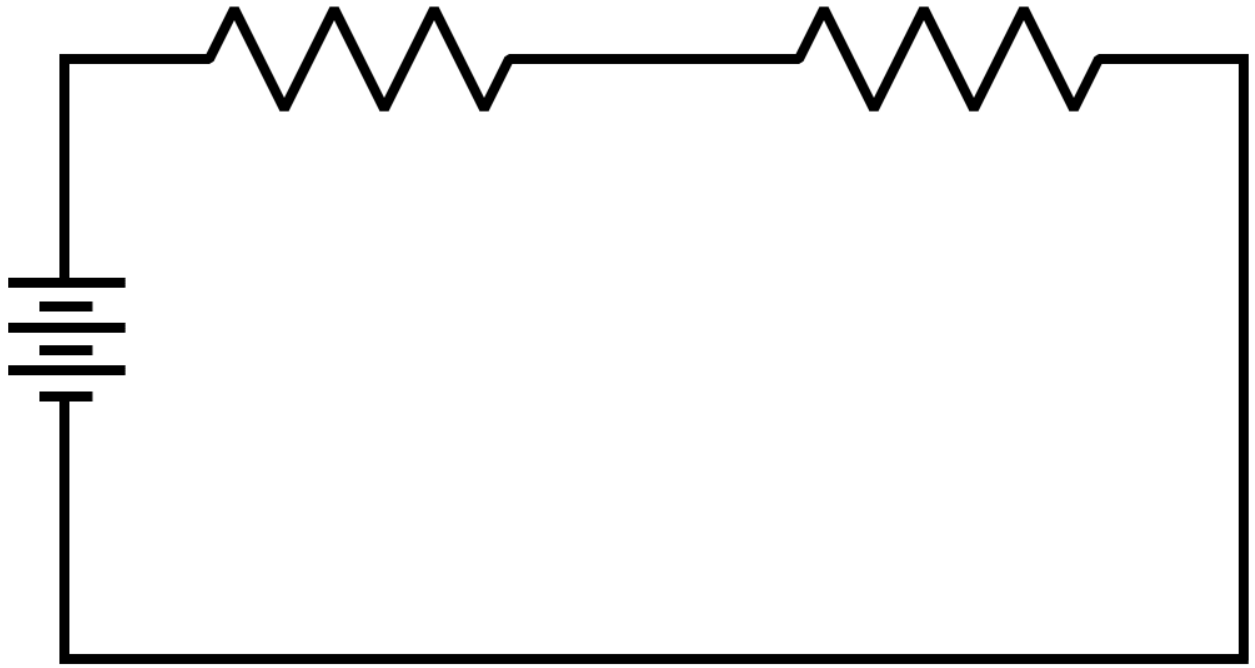
$I_T = 1.25$ Amps $\quad R_T = 96$ Ohms $\quad R_1 = 3.68$ Ohms

Find All Values of E, I and R using Ohm's Law and Series Rules

Series Example 5

$P_1 = 5.75$ Watts
$E_1 = 4.6$ Volts
$I_1 = 1.25$ Amps
$R_1 = 3.68$ Ohms

$P_2 =$
$E_2 =$
$I_2 = 1.25$ Amps
$R_2 = 92.32$ Ohms



$P_T = 150$ Watts
$E_T = 120$ Volts
$I_T = 1.25$ Amps
$R_T = 96$ Ohms

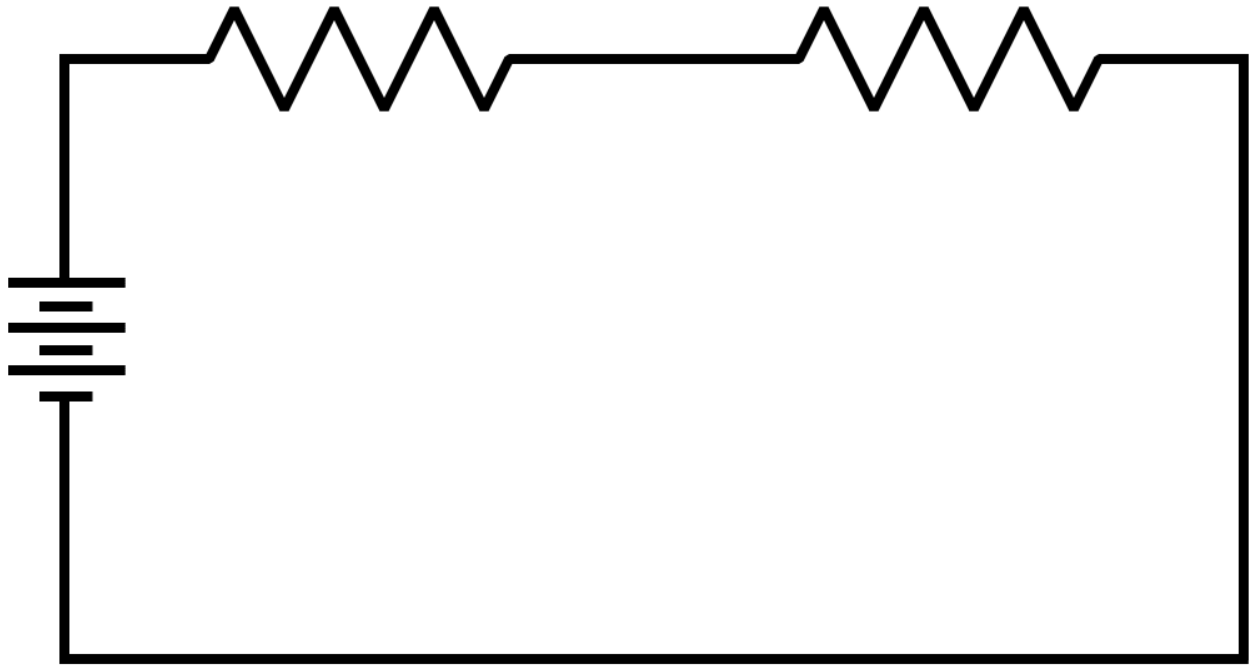
$I_T = 1.25$ Amps $\quad R_T = 96$ Ohms $\quad R_1 = 3.68$ Ohms

Find All Values of E, I and R using Ohm's Law and Series Rules

Series Example 5

$P_1 = 5.75$ Watts
$E_1 = 4.6$ Volts
$I_1 = 1.25$ Amps
$R_1 = 3.68$ Ohms

$P_2 = 144.25$ Watts
$E_2 = 115.4$ Volts
$I_2 = 1.25$ Amps
$R_2 = 92.32$ Ohms



$P_T = 150$ Watts
$E_T = 120$ Volts
$I_T = 1.25$ Amps
$R_T = 96$ Ohms

$I_T = 1.25$ Amps $R_T = 96$ Ohms $R_1 = 3.68$ Ohms

Find All Values of E, I and R using Ohm's Law and Series Rules