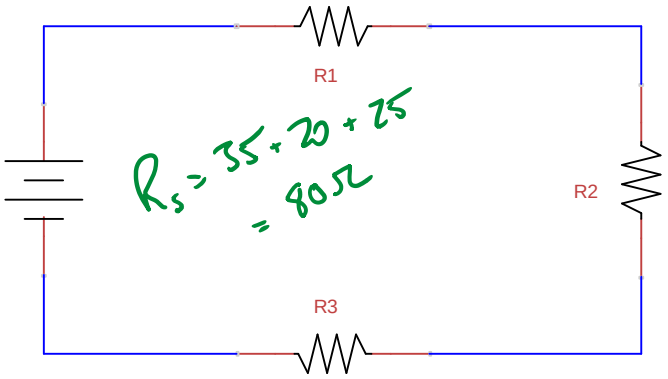
Name _____ **Date** _____
Teacher _____ **Period** _____

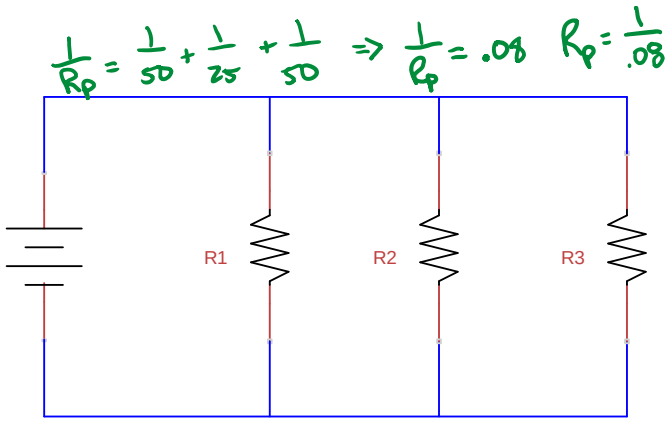
Equivalent Resistance Practice

Parallel: $\frac{1}{R_{eq}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \cdots$ Series: $R_{eq} = R_1 + R_2 + R_3 + \cdots$



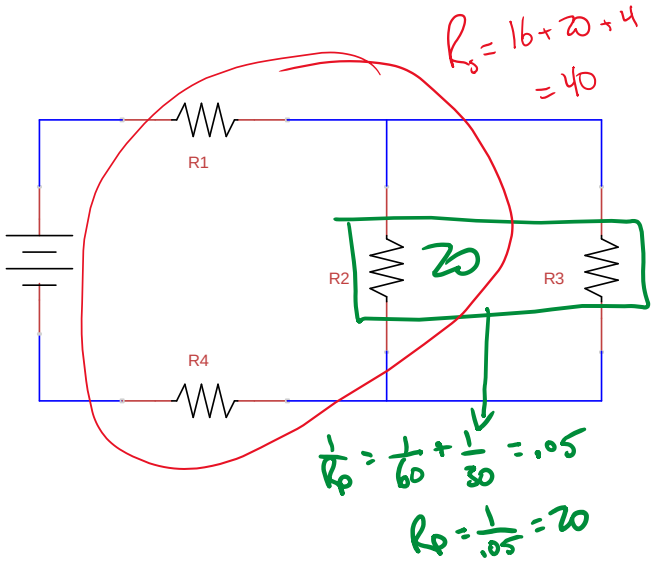
R_1= 35 Ω
R_2= 20 Ω
R_3= 25 Ω

V_{Total} (V)	I_{Total} (A)	R_{Total} (Ω)
120.0	1.5 A	80Ω



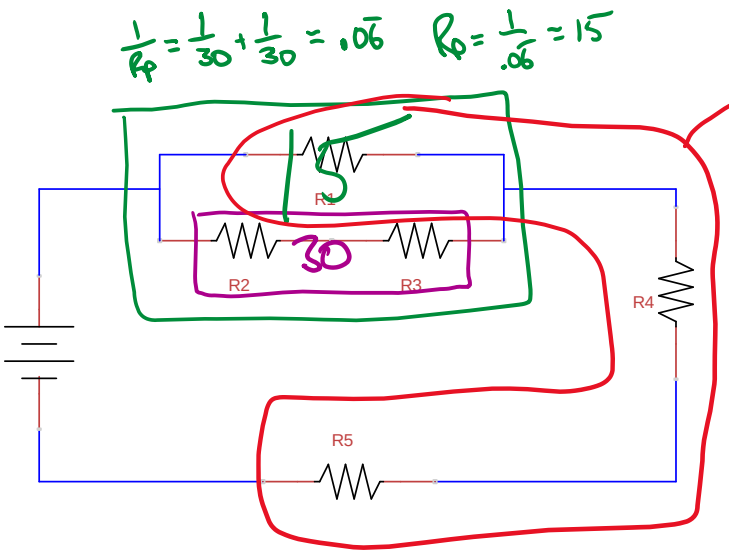
R_1= 50 Ω
R_2= 25 Ω
R_3= 50 Ω

V_{Total} (V)	I_{Total} (A)	R_{Total} (Ω)
75.0	6 A	12.5Ω



R_1= 16 Ω
R_2= 60 Ω
R_3= 30 Ω
R_4= 4 Ω

V_{Total} (V)	I_{Total} (A)	R_{Total} (Ω)
80.0	2A	40Ω



R_1= 30 Ω

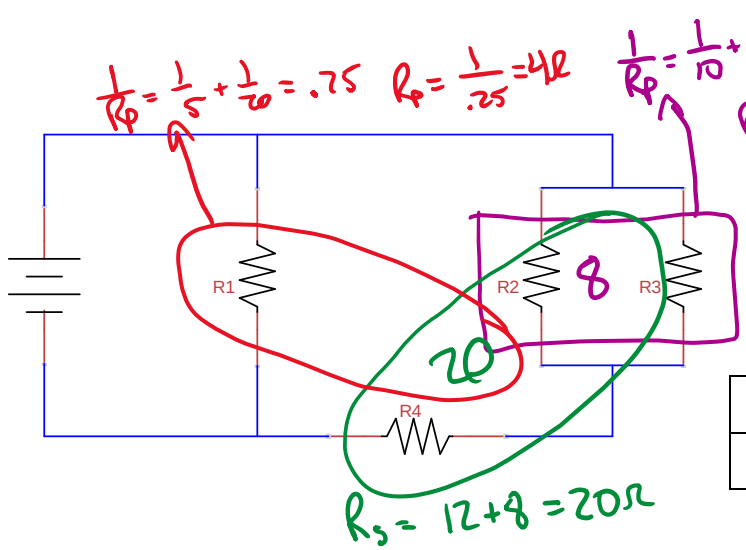
R_2= 10 Ω

R_3= 20 Ω

R_4= 15 Ω

R_5= 10 Ω

V_{Total} (V)	I_{Total} (A)	R_{Total} (Ω)
100.0	2.5 A	40



R_1= 5 Ω

R_2= 10 Ω

R_3= 40 Ω

R_4= 12 Ω

V_{Total} (V)	I_{Total} (A)	R_{Total} (Ω)
125.0	31.25 A	4Ω