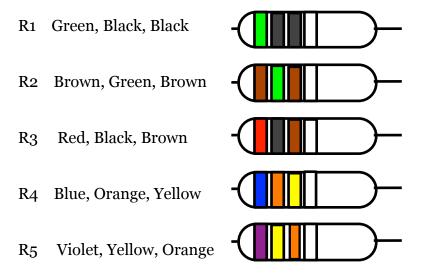
Resistors- You have one of each of the following resistors.



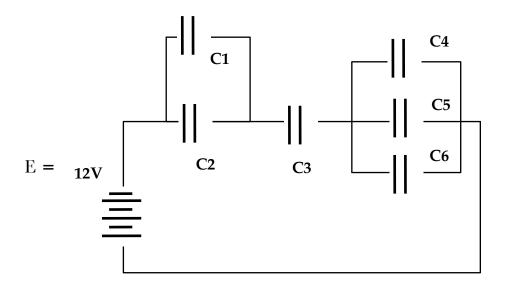
What is the resistance in each of the 5 resistors?

R1 R2 R3 R4 R5

Given one of each, use the above resistors to answer these questions.

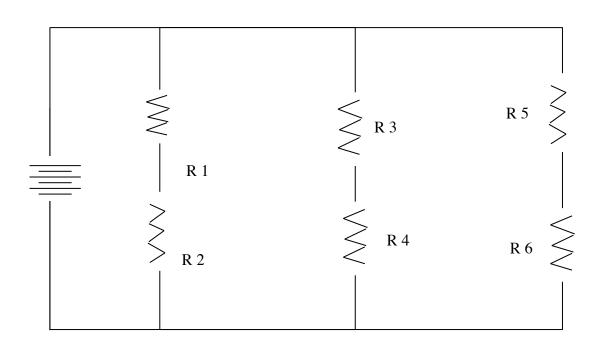
- 2. What is the total resistance if R₃, R₄, and R₅ are placed in Series
- 3. What is the total resistance if R1 and R3 are placed in Parallel?
- 4. How can you use these resistors to get a total resistance of 400?
- 5. How can you get a total resistance of 237.5?

Complete the table below



	Q	V	С µF	W
C1			150	
C2			150	
C3			600	
C4			25	
C5			75	
C6			100	
Т		12		

	V	I	R	P
R1			100	
R2			200	
R3			80	
R4			40	
R5			30	
R6			90	
Т	120			

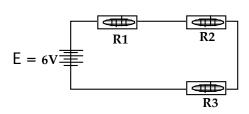


What is the value of a capacitor that holds $6.0~\mu C$ across a potential of 8V?

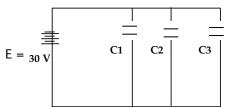
A 5 μ F capacitor is connected to a 45 V source. What is the charge on the capacitor, and how much energy does it store?

A 250 Ω resistor is connected to a 6 V battery. What is the current through the resistor?

What value of resistance is necessary to get a current of 1.5 A when it is connected to a 30 V source?

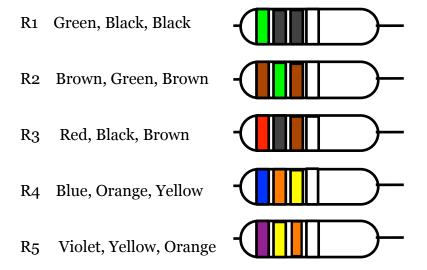


	V	I	R
R1			15
R2			25
R3			80
T	6		



	Q	V	С
R1			15
R2			25
R3			80
T		30	

Resistors- You have one of each of the following resistors.

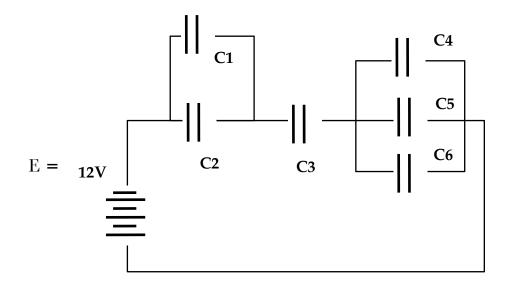


What is the resistance in each of the 5 resistors?

Given one of each, use the above resistors to answer these questions.

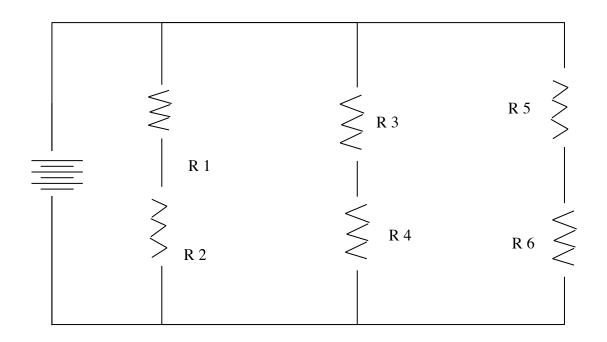
- What is the total resistance if R3, R4, and R5 are placed in Series
 704,200
- 3. What is the total resistance if R1 and R3 are placed in Parallel?40
- 4. How can you use these resistors to get a total resistance of 400?A series of R1 + R2 + R3
- 5. How can you get a total resistance of 237.5?R4 in series with (R1 and R2 in parallel)

Complete the table below



	Q	V	С µF	W
C1	600	4	150	1200
C2	600	4	150	1200
С3	1200	2	600	1200
C4	150	6	25	450
C5	450	6	75	1350
C6	600	6	100	1800
Т	1200	12	100	7200

	V	I	R	P
R1	40	0.4	100	16
R2	80	0.4	200	32
R3	80	1	80	80
R4	40	1	40	40
R5	30	1	30	30
R6	90	1	90	90
Т	120	2.4	50	288



What is the value of a capacitor that holds 6.0 µC across a potential of 8V?

0.75 μF

A 5 μ F capacitor is connected to a 45 V source. What is the charge on the capacitor, and how much energy does it store?

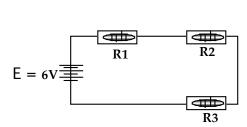
225 μC 562 μJ

A 250 Ω resistor is connected to a 6 V battery. What is the current through the resistor?

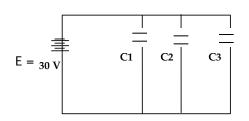
0.024 A

What value of resistance is necessary to get a current of 1.5 A when it is connected to a 30 V source?

20 Ω



	V	I	R
R1	0.75	0.05	15
R2	1.25	0.05	25
R3	4	0.05	80
T	6	0.05	120



	Q	V	C
R1	450	30	15
R2	750	30	25
R3	2400	30	80
T	3600	30	120