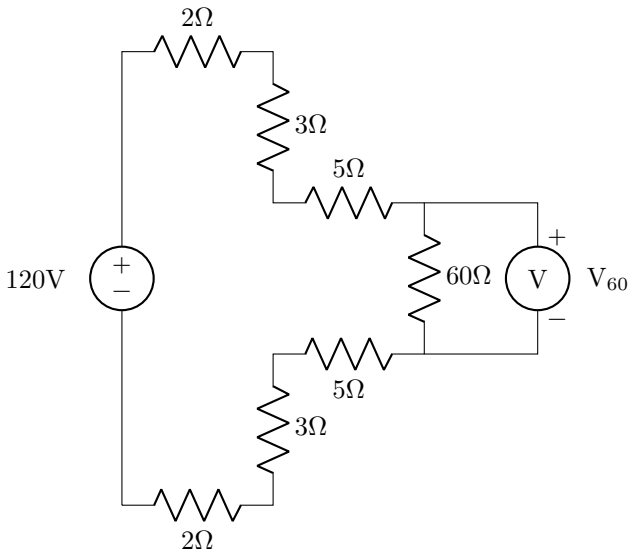
1. Analyze the following circuit:



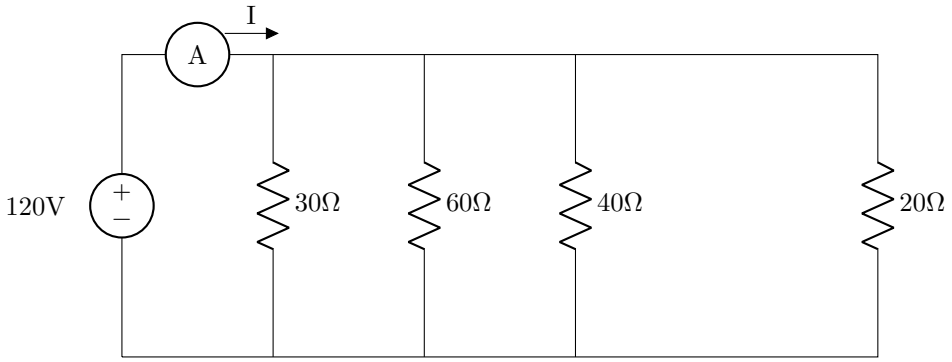
(a) What power does the source supply?

$P_s =$ ____

(b) What does the voltmeter read?

$V_{60} =$ ____

2. Analyze the following circuit:



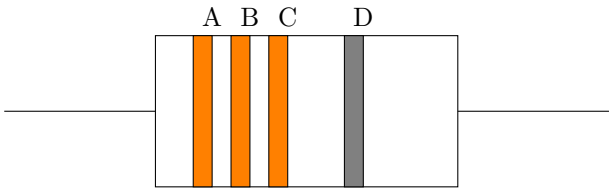
(a) Find the current through and power absorbed by each resistor.

I_{30} =		P_{30} =	
I_{40} =		P_{40} =	
I_{60} =		P_{60} =	
I_{20} =		P_{20} =	

(b) What does the ideal anmeter read?

$I_{=}$ =

3. Given the following 4-band resistor:



(a) What is the nominal resistance value? What would be the maximum possible resistance value (at the edge of maximum tolerance)?

$R_{nominal}$ = R_{max} =

(b) What would be the bands for a 150Ω resistor with 20% tolerance?

band 1 = band 2 =

band 3 = band 4 =

4. Given that the power absorbed by a resistor is $P = \frac{V^2}{R} = I^2R$:

(a) How much voltage can you put across a 220Ω , 1W resistor?

V =

(b) How much current can you put through a 100Ω , 2W resistor?

I =