Match the resistance values to the resistors!



(1.) 470 Ω

(3.) 10K Ω

(5.) 270K Ω

(2.)____1KΩ

(4.)_____100ΚΩ





BROWN BLACK YELLOW GOLD

B



RED VIOLET YELLOW GOLD

C



BROWN BLACK ORANGE GOLD

D



YELLOW VIOLET BROWN GOLD

E



BROWN BLACK RED GOLD

Write the letter "F" if the statement is False and the letter "T" if the statement is True!

1.	Rated resistance values and measured resistance values are always the same for all resistors.
2.	When measuring resistance values of thee different $1K\Omega$ resistors, it is possible to get three different measured resistance values.
3.	The numerical value of a RED colored band on a resistor is 2.
4.	When added to a circuit, resistors <i>do not</i> resist or limit the amount of electrical flow.
5.	The color bands on fixed resistors only come in five colors: black, brown, red, violet and yellow.
6.	A potentiometer's resistance value can change based on the amount of light present.
7.	The Greek symbol Omega (Ω) is the symbol for the SI Unit of electrical resistance.
8.	The tolerance value of a GOLD colored band on a resistor is ±5%.

Choose the best word from the word bank to complete the following sentences!

1.	The unit for electrical resistance is named		
	after	a German physicist and mathematician.	
2.	Resistors have	ratings given as a percentage.	
3.	is known for inventing the wire precision resisto		
4.	When resistors are connected in single path for current to flow.	they make a	
5.	A resistor'sa circuit.	_limits the flow of electric current through	
	Resistors connected in	create multiple paths for	





Draw the circuit diagram symbols for and explain how a fixed resistor, photoresistor, and a potentiometer work.



Determine the resistance value for the following resistors.





Calculate the total resistance for <u>Circuit 1</u> and <u>Circuit 2</u>.



Circuit 1



Circuit 2

