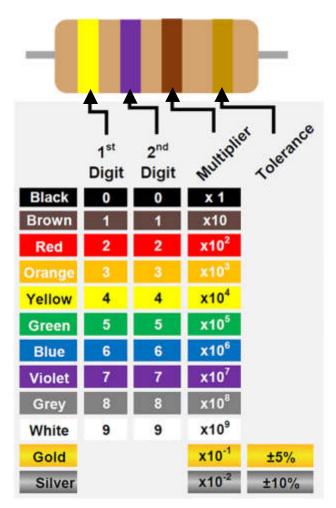


Using the resister color chart, figure out the resistance values for each of the resisters pictured above.



Here is a great mnemonic to remember the colors and their digit values.

0	Better
1	Be
2	Right
3	Or
4	Your
5	Great
6	Big
7	Vacation
8	Goes
9	Wrong!
± 5%	Go
± 10%	Study!





```
1^{st} Band = 1^{st} Digit = YELLOW = 4

2^{nd} Band = 2^{nd} Digit = VIOLET = 7

3^{rd} Band = Multiplier = BROWN = 10^1 = 10

4^{th} Band = Tolerance = GOLD = \pm 5%
```

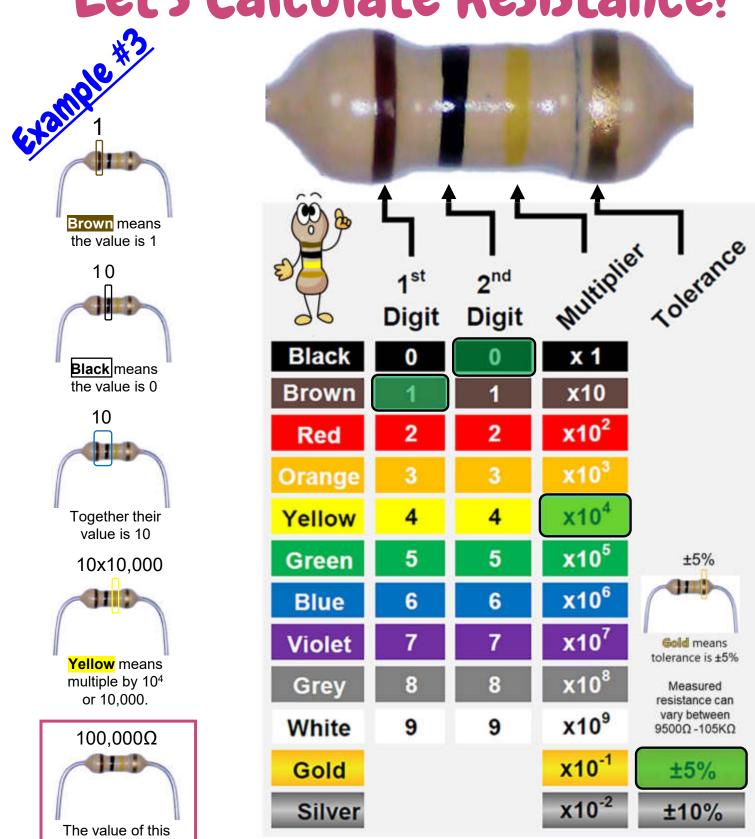
The 4 and 7 represents 46 and is multiplied by 10 equals 470Ω

The 470 Ω Resistor at ± 5% tolerance makes the actual value between 446.5 Ω and 493.5 Ω



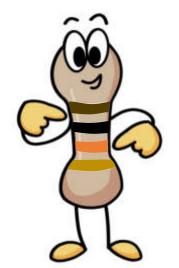
The 1 and 0 represents 10 and is multiplied by 100 equals $\frac{1K\Omega}{}$

The 1K Ω Resistor at ± 5% tolerance makes the actual value between 1050 Ω and 950 Ω





resistor is $100,000\Omega$ or $10K\Omega$

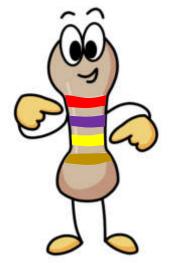


```
1st Band = 1st Digit = BROWN =

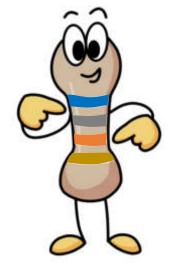
2nd Band = 2nd Digit = BLACK =

3rd Band = Multiplier = ORANGE =

4th Band = Tolerance = GOLD =
```

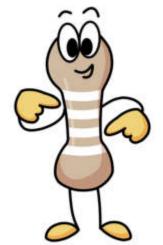


1st Band = 1st Digit = RED =
2nd Band = 2nd Digit = VIOLET =
3rd Band = Multiplier = YELLOW =
4th Band = Tolerance = GOLD =



1st Band = 1st Digit = BLUE = 2nd Band = 2nd Digit = GREY = 3rd Band = Multiplier = ORANGE = 4th Band = Tolerance = GOLD =

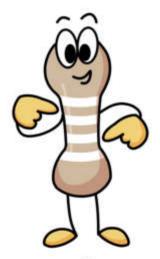
Color in the bands using the resistor color chart to create your own resisters. Exchange drawings with another student in the class and figure out the resistance values for each of the resisters pictured below.



1st Band = 1st Digit = 2nd Band = 2nd Digit =

3rd Band = Multiplier =

4th Band = Tolerance =

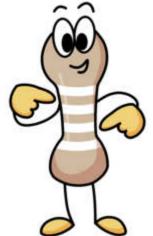


1st Band = 1st Digit =

2nd Band = 2nd Digit =

3rd Band = Multiplier =

4th Band = Tolerance =



1st Band = 1st Digit =

2nd Band = 2nd Digit =

3rd Band = Multiplier =

4th Band = Tolerance =