Ohm's Law

Ohm's Law states that the current through a conductor is proportional to the voltage across it provide that temperature doesn't change.

Voltage = Resistance x Current

V = I x R

Resistance is measured in ohms (Ω)

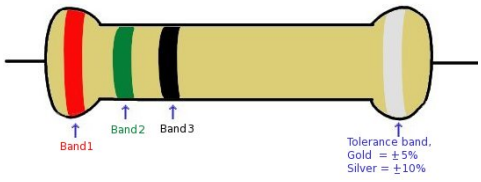
Rearrange the formula for current and resistance:

I=

R=

Did you know: **Georg Simon Ohm** (16 March 1789 – 6 July 1854) was a Bavarian (German) physicist and mathematician. As a high school teacher, Ohm began his research with the new electrochemical cell, invented by Italian scientist Alessandro Volta. Using equipment of his own creation, Ohm found that there is a direct proportionality between the potential difference (voltage) applied across a conductor and the resultant electric current. This relationship is known as Ohm's law. (info from Wikipedia)

Resistor Color Codes					
	Band 1	Band 2	Band 3	Band 4	Band 5
Color	1st Digit	2nd Digit	Multiplier	Tolerance	Reliability
Black		0	1		
Brown	1	1	10		1%
Red	2	2	100		0.1%
Orange	3	3	1,000		0.01%
Yellow	4	4	10,000		0.001%
Green	5	5	100,000		
Blue	6	6	1,000,000		
Violet	7	7	10,000,000		
Gray	8	8	100,000,000		
White	9	9	1,000,000,000		
Gold			x 0.1	5%	
Silver			x 0.01	10%	



What would the resistance be for a resistor with the following colour bands: orange, blue, red?