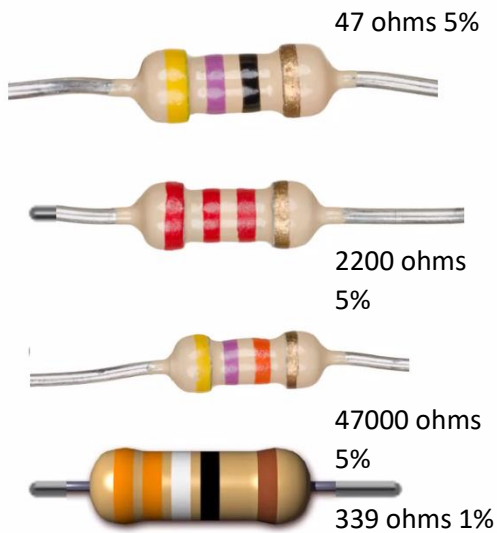


What are the resistance and tolerance of each of resistors?



Color	Value	Multiplier	Tolerance
Black	0	$\times 10^0$	$\pm 20\%$
Brown	1	$\times 10^1$	$\pm 1\%$
Red	2	$\times 10^2$	$\pm 2\%$
Orange	3	$\times 10^3$	$\pm 3\%$
Yellow	4	$\times 10^4$	- 0, + 100%
Green	5	$\times 10^5$	$\pm 0.5\%$
Blue	6	$\times 10^6$	$\pm 0.25\%$
Violet	7	$\times 10^7$	$\pm 0.10\%$
Gray	8	$\times 10^8$	$\pm 0.05\%$
White	9	$\times 10^9$	$\pm 10\%$
Gold	-	$\times 10^{-1}$	$\pm 5\%$
Silver	-	$\times 10^{-2}$	$\pm 10\%$
None	-	-	$\pm 20\%$

Exercise 2

R

Exercise 2**

What is the **voltage** across 24 k Ω resistor has a current of 2.0 mA?

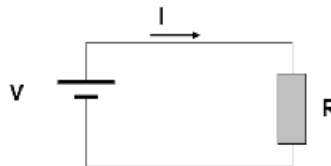
$$V = IR$$

$$2 \times 10^{-3}$$

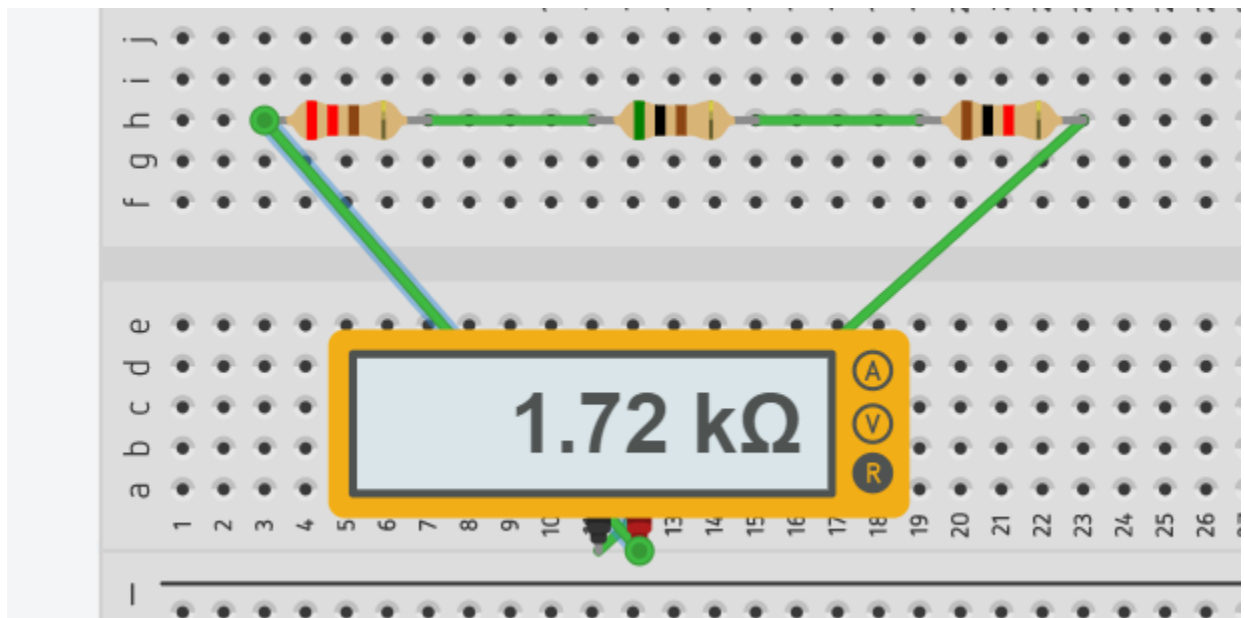
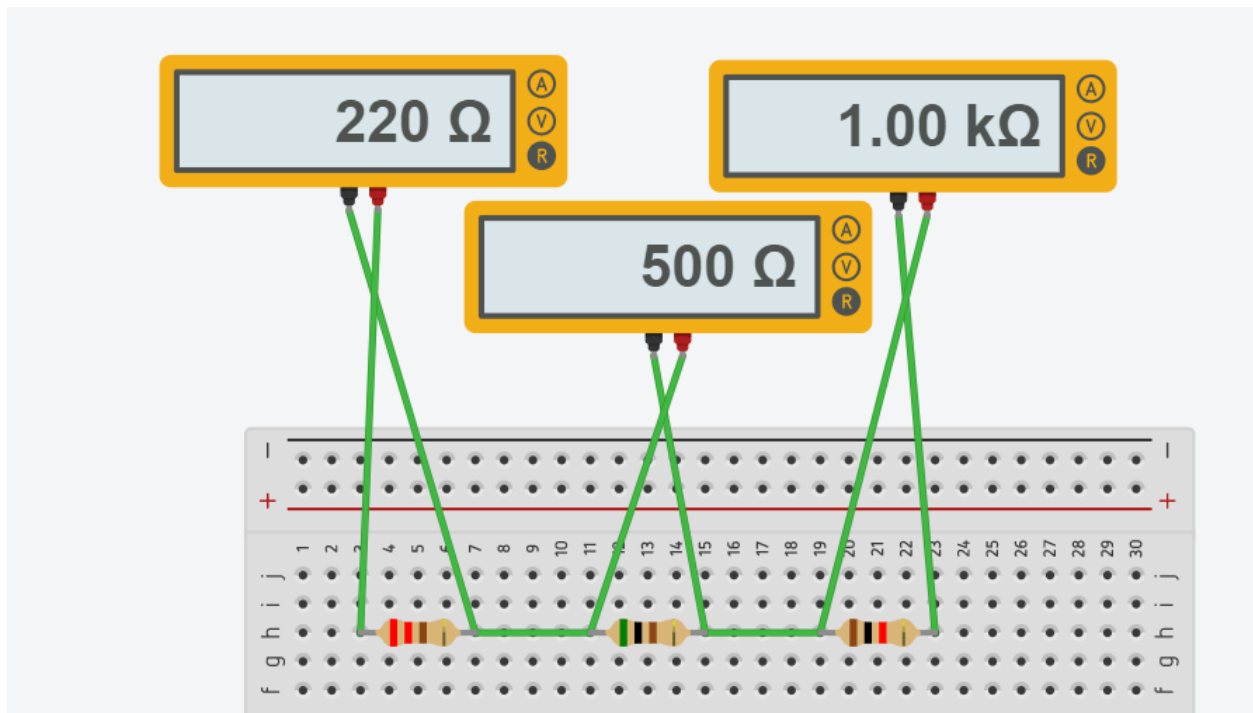
$$24 \times 10^3 = 24000$$

$$V = 0.002 \times 24000$$

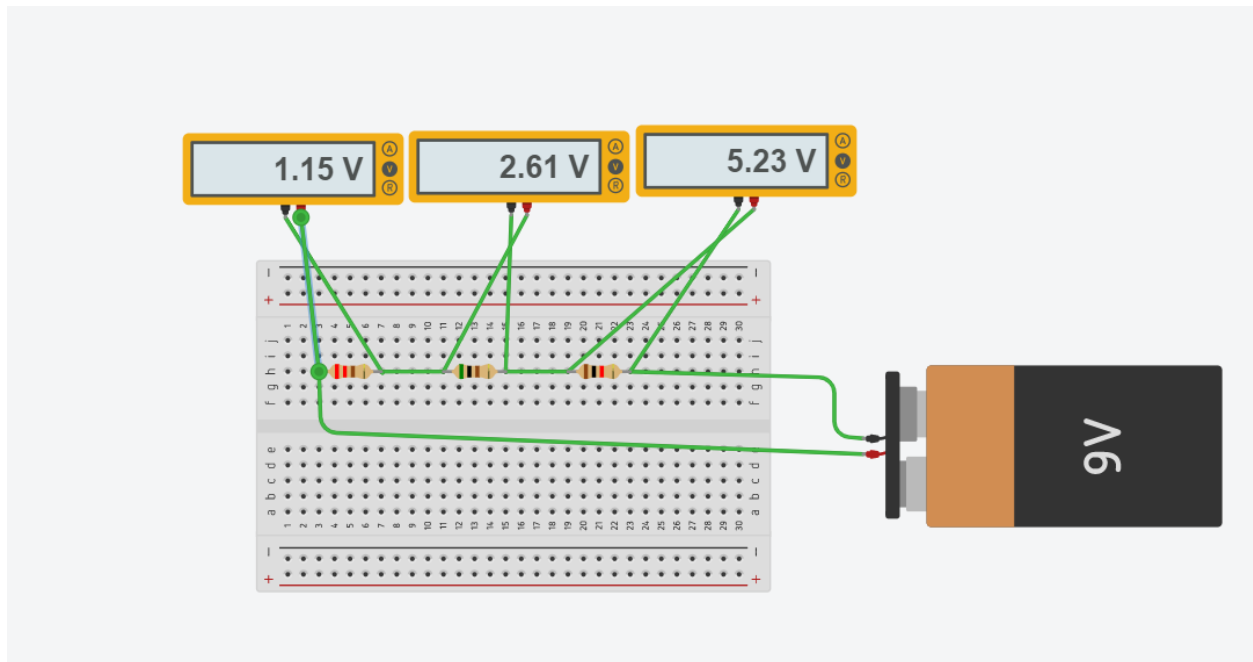
$$V = 48 \text{ Volts}$$



Exercise 3



Exercise 4



Exercise 5

