

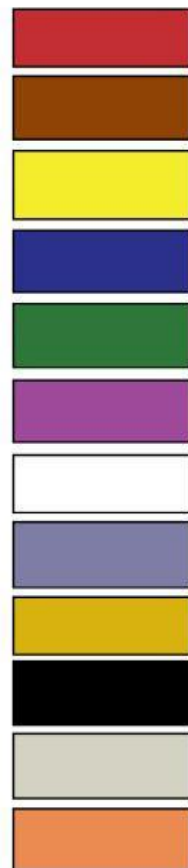
RESISTORS

COLOUR CODE AND RESISTANCE

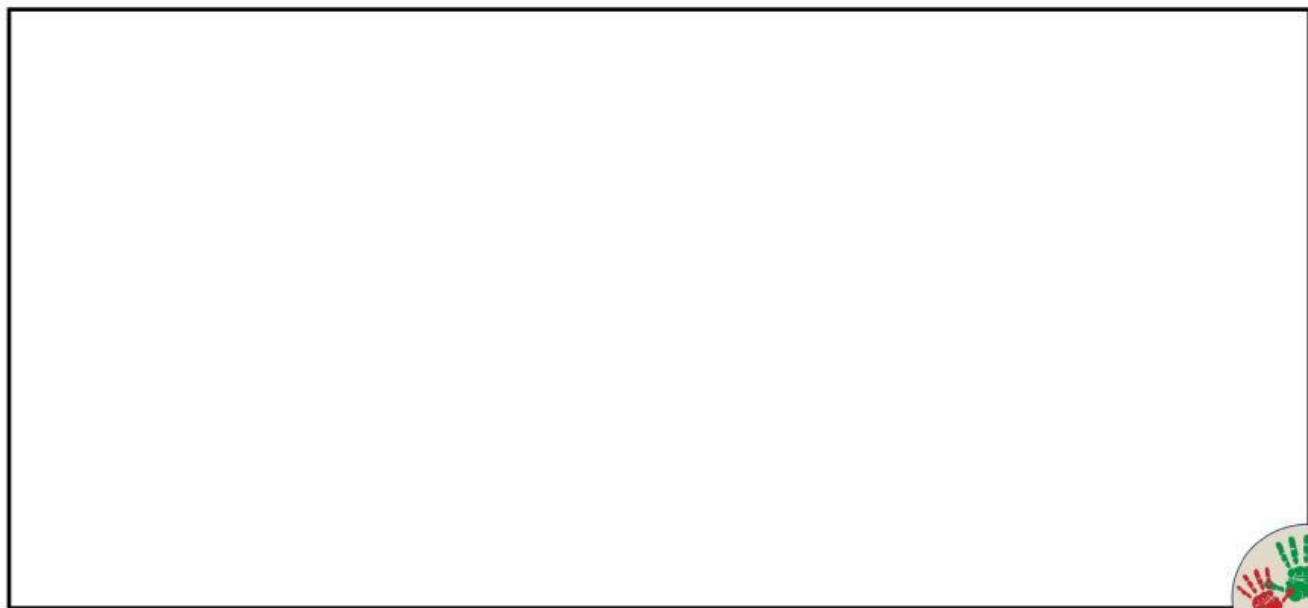


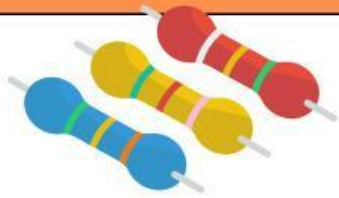
Please choose the appropriate color for the given number and then drag and drop the colour band from the right to the corresponding location.

Number	Colour	Number to be multiplied by According the color of the third or fourth band
0	Black	$10^0 = 1$
1	Brown	$10^1 = 10$
2	Red	$10^2 = 100$
3	Orange	$10^3 = 1000$
4	Tellow	$10^4 = 10000$
5	Green	$10^5 = 100000$
6	Blue	$10^6 = 1000000$
7	Purple	$10^7 = 10000000$
8	Gray	$10^8 = 100000000$
9	White	$10^9 = 1000000000$
-1	Gold	$10^{-1} = 0.1$
-2	Silver	$10^{-2} = 0.01$



For a more comprehensive understanding of color coding and resistance, please watch the following video.





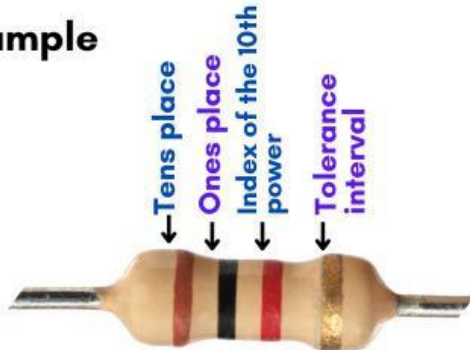
RESISTORS



Calculations

Select the appropriate answers from the drop down menu

Example



1 0 × 100 ± 5%

$$\text{Resistance} = 1000 \pm 1000 \times \frac{5}{100}$$

$$\text{Resistance} = 1000 \pm 50 \Omega$$

$$= (1000 - 50) \Omega - (1000 + 50) \Omega$$

$$\text{Range of true value of resistor} = 950 \Omega - 1050 \Omega$$



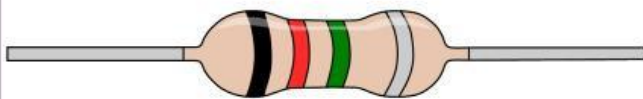
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$$\text{Resistance} = 1000 \pm 1000 \times \frac{5}{100}$$

$$\text{Resistance} = 1000 \pm 50 \Omega$$

$$= (1000 - 50) \Omega - (1000 + 50) \Omega$$

$$\text{Range of true value of resistor} = 950 \Omega - 1050 \Omega$$



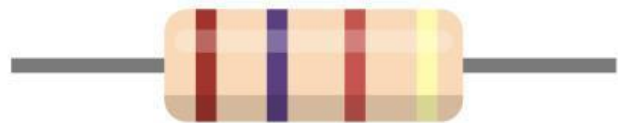
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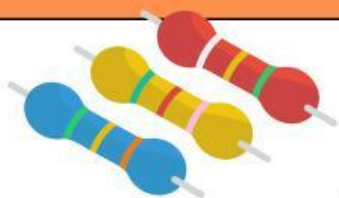
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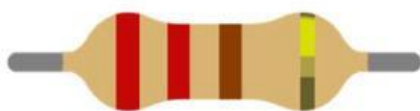
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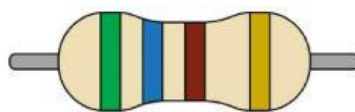
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