

RESISTORS / OHMS LAW

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On behalf of The World Association of Technology Teachers

W.A.T.T.



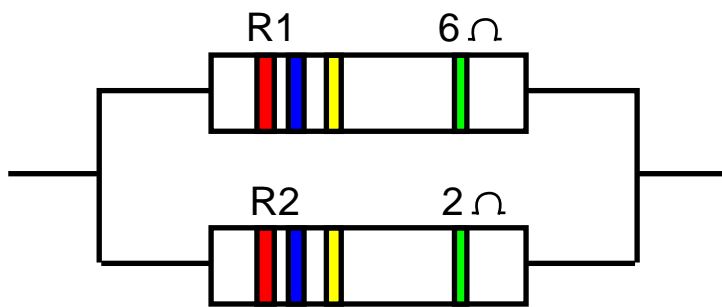
World Association of Technology Teachers

This exercise can be printed and used by teachers and students. It is recommended that you view the website (www.technologystudent.com) before attempting the design sheet .

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RESISTORS IN PARALLEL - QUESTION 1

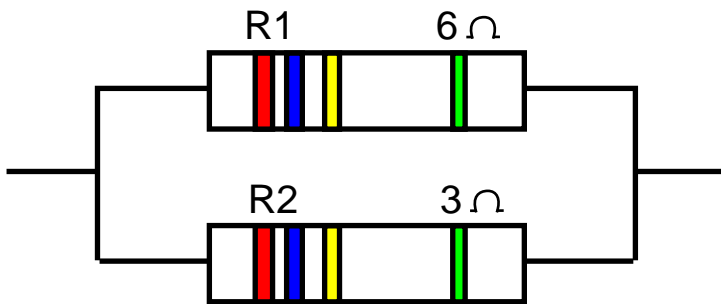
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1. Calculate the total resistance for the two resistors in parallel

$$\frac{R1 \times R2}{R1 + R2} = \frac{6 \times 2}{6 + 2} = \frac{12}{8} = 1.5 \Omega$$

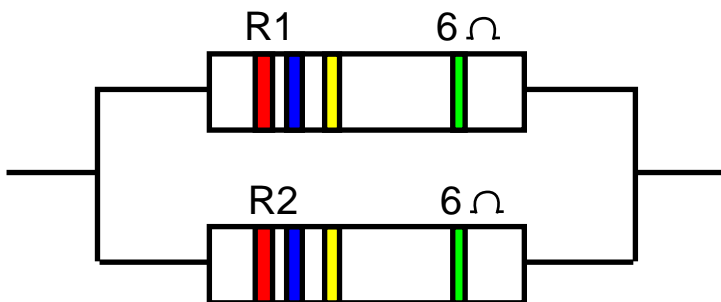
RESISTORS IN PARALLEL - QUESTION 2



1. Calculate the total resistance for the two resistors in parallel

$$\frac{R1 \times R2}{R1 + R2} = \frac{6 \times 3}{6 + 3} = \frac{18}{9} = 2 \Omega$$

RESISTORS IN PARALLEL - QUESTION 3



1. Calculate the total resistance for the two resistors in parallel

$$\frac{R1 \times R2}{R1 + R2} = \frac{6 \times 6}{6 + 6} = \frac{36}{12} = 3 \Omega$$
