NAME _____ CLASS _____

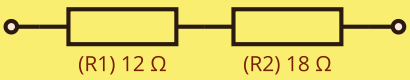
RESISTANCE CALCULATIONS

SERIES
$R_T = R_1 + R_2 + R_3 + ...$

PARALLEL (TWO RESISTORS)
$R_T = (R_1 \times R_2) \div (R_1 + R_2)$

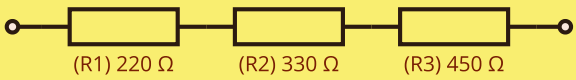
1 Calculate the total resistance of each circuit. Show your working and include units. 12 marks

A



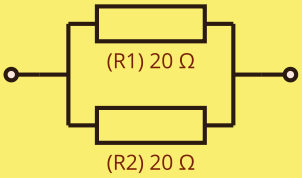
WORKING

B



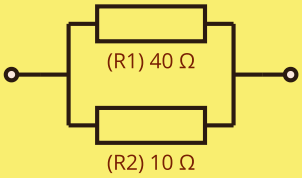
WORKING

C



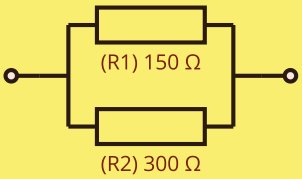
WORKING

D



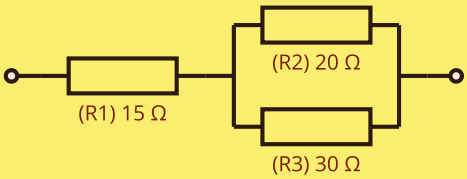
WORKING

E



WORKING

F



WORKING

2 Look at your answers for (c) and (d). What do you notice about the total resistance of a parallel circuit compared with the resistors in it? 2 marks