Student 1 – name and surname	Student 2 – name and surname	Group	Date	Table no.

Worksheet laboratory 3

rev. 1

1. Reading and measuring resistors

R_1 = tolerance = [%] R_2 = tolerance = [%]

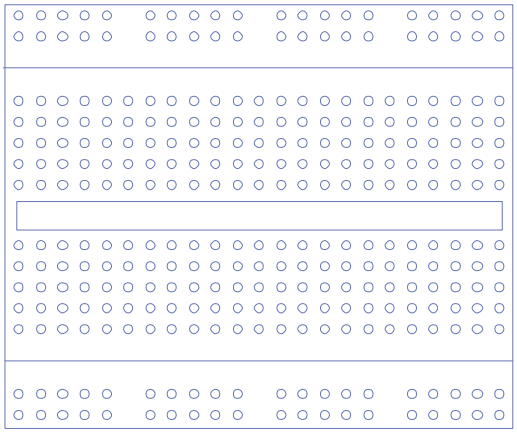
R_{1m} = R_{2m} = ε_1 = [%] ε_2 = [%]

2 . Study of the connections on the breadboard

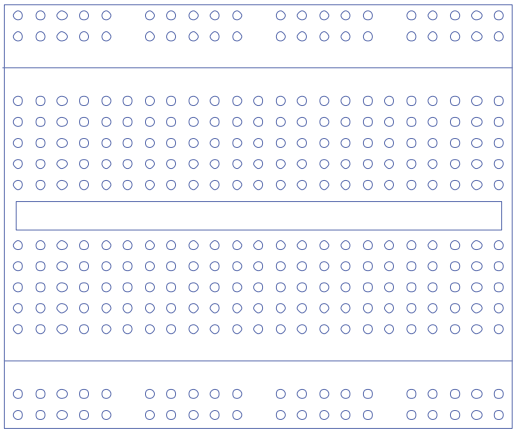
At which column number are the 2 long top and bottom horizontal rows interrupted?
Answer: .....

3. Building given circuits on the breadboard

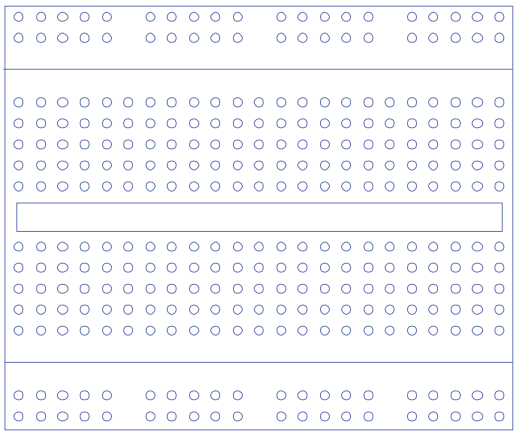
R_1= R_2=



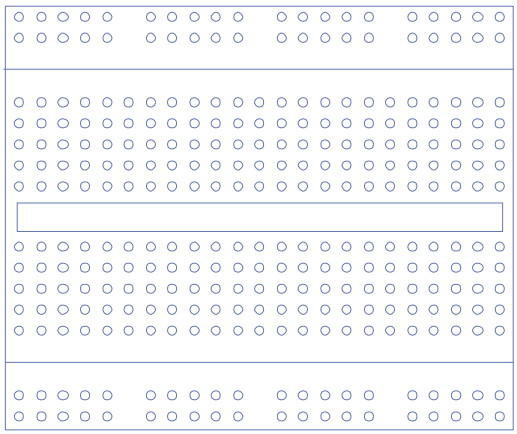
circuit 1 $R_{AB\ calc}$ = $R_{AB\ meas}$ =



circuit 2 $R_{AB\ calc}$ = $R_{AB\ meas}$ =



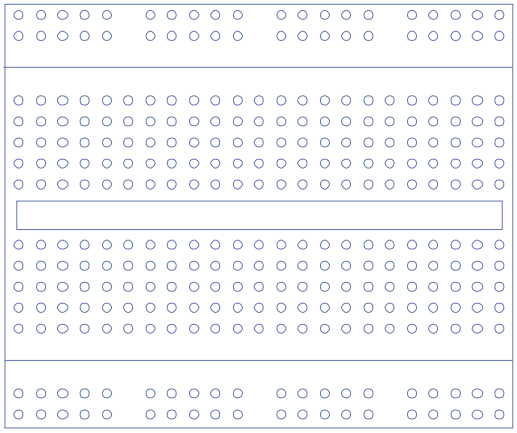
circuit 3 $R_{AB\ calc}$ = $R_{AB\ meas}$ =



circuit 4 $R_{AB\ calc}$ = $R_{AB\ meas}$ =

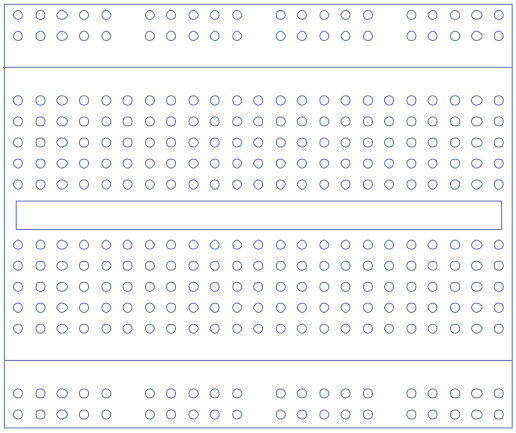
4. Designing and building resistive circuits on the breadboard

schematic:



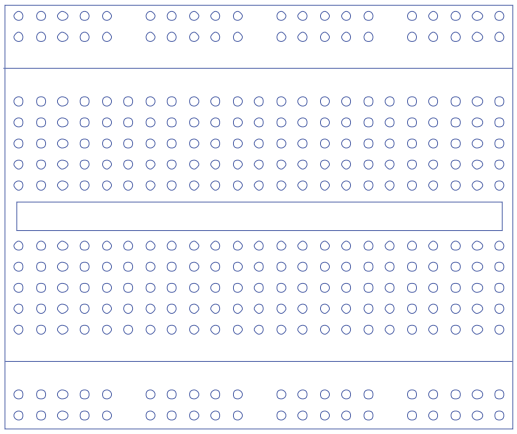
circuit 1 R_{AB} = $R_{AB\ meas}$ =

schematic:



circuit 2 R_{AB} = $R_{AB\ meas}$ =

schematic:



circuit 3 R_{AB} = $R_{AB\ meas}$ =

5. Building and measuring resistive dividers

a) R_1= R_2= C_y = C_x = U_A= U_B=

$R_2/(R_1+R_2)$= U_B/U_A=

b) U_A= U_2=

$R_2/(R_1+R_2+R_3)$ = U_2 / U_A =

6. Measurement of the input resistence of the oscilloscope

R_1 = C_y = U_A= U_B= R_i =