

# Anvendt Statistik og KeHaTools Kapitel 15: Multipel lineær regression

# Oversigt

- Kapitel 15.2 multipel lineær regression

# Multipel lineær regression - I

The screenshot shows a Microsoft Excel spreadsheet titled "FS\_Data.xlsx". The active cell is R3, containing the formula  $=\text{O}3-\text{O}2)/\text{O}2$ . The data consists of 25 rows and 7 columns. The columns are labeled: Nr, Pris, Alder, Kørte km, 5 dørs, Metallak, and Øst for. The data includes various numerical values and binary variables (0 or 1) across the rows.

1	Nr	Pris	Alder	Kørte km	5 dørs	Metallak	Øst for
2	1	47.900		4 128.000	0	1	1
3	2	86.900		2 40.000	1	1	0
4	3	84.900	1	36.000	1	0	1
5	4	62.900	5	144.000	1	1	1
6	5	88.900	2	48.000	1	1	1
7	6	71.650	4	45.000	0	1	0
8	7	71.650	5	89.000	0	0	0
9	8	75.400	3	66.000	1	0	0
10	9	76.900	2	52.000	1	1	1
11	10	82.650	3	57.000	1	1	0
12	11	108.150	1	15.000	1	1	1
13	12	65.150	5	91.000	1	1	0
14	13	65.150	3	95.000	1	1	1
15	14	97.900	2	36.000	1	0	0
16	15	88.900	1	24.000	0	0	1
17	16	68.400	3	46.000	0	1	0
18	17	78.900	3	72.000	1	1	1
19	18	60.650	5	117.000	1	1	0
20	19	80.150	2	55.000	0	1	0
21	20	50.150	5	135.000	0	0	0
22	21	78.400	1	30.000	0	1	1
23	22	76.650	2	61.000	0	1	0
24	23	87.150	1	31.000	0	1	0
25	24	94.650	1	29.000	1	0	1

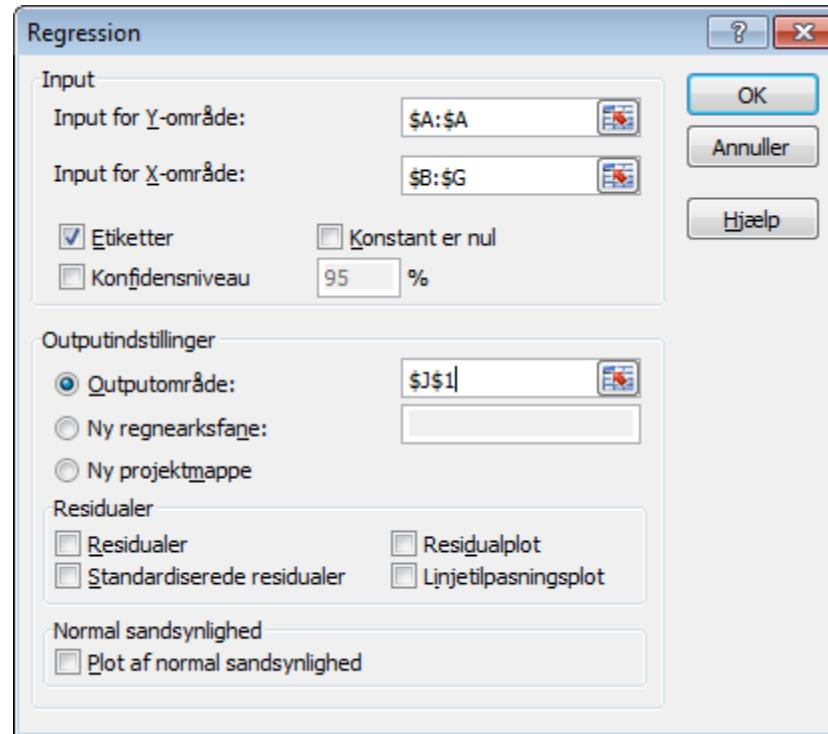
# Multipel lineær regression - II

The screenshot shows a Microsoft Excel window titled "FS\_Data.xlsx - Microsoft Excel". The ribbon menu is visible at the top, with the "Data" tab highlighted. A red circle highlights the "Data" tab and the "Data analysis" button in the "Data" tab's ribbon group. Below the ribbon, there is a data table with columns labeled A through M. The first few rows of data are:

Nr	Pris	Alder	Kørte km	5 dørs	Metallak	Øst for							
1	47.900	4	128.000	0	1	1							
2	86.900	2	40.000	1	1	0							
3	84.900	1	36.000	1	0	1							
4	62.900	5	144.000	1	1	1							
5	88.900	2	48.000	1	1	1							
6	71.650	4	45.000	0	1								
7	71.650	5	89.000	0	0								
8	75.400	3	66.000	1	0								
9	76.900	2	52.000	1	1								
10	82.650	3	57.000	1	1								
11	108.150	1	15.000	1	1								
12	65.150	5	91.000	1	1								
13	65.150	3	95.000	1	1								
14	97.900	2	36.000	1	0								
15	88.900	1	24.000	0	0								
16	68.400	3	46.000	0	1								
17	78.900	2	72.000	1	1								

A data analysis dialog box is open, titled "Dataanalyse". The "Analyseværktøj" (Analysis Tools) list is shown, with "Regression" highlighted by a red circle. Other options in the list include Histogram, Bevægelig gennemsnit, Generering af tilfældige tal, Rang og fraktil, Sukspørg, t-test: Parvis dobbelt stikprøve for middelværdi, t-test: To stikprøver med ens varians, t-test: To stikprøver med forskellig varians, and z-test: To stikprøver for middelværdi. The "OK" button is visible in the bottom right corner of the dialog box.

# Multipel lineær regression - III



# Multipel lineær regression - IV