

ANOVA

Name _____

Determine if compact, midsize and large 2006 car models had different average gas mileages (in the city):

DATA: Year 2006 City Miles Per Gallon

ROW	Model	Size	Category	cityMPG
1	Acura TSX	Compact	1	22
2	Audi A4	Compact	1	24
3	Audi A4 Quattro	Compact	1	22
4	Audi S4	Compact	1	15
5	Bentley Continental GT	Compact	1	12
6	BMW 325I	Compact	1	20
7	Chevrolet Optra	Compact	1	22
8	Chrysler Sebring Convertible	Compact	1	22
9	Ford Focus FWD	Compact	1	26
10	Honda Civic Hybrid	Compact	1	49
11	Hyundai Accent	Compact	1	28
12	Infinity G35	Compact	1	19
13	Jaguar X-Type	Compact	1	18
14	Kia Rio	Compact	1	29
15	Mazda 3	Compact	1	28
16	Mercedes-Benz C230	Compact	1	21
17	Mercedes-Benz C280	Compact	1	21
18	Mercedes-Benz CL600	Compact	1	13
19	Mitsubishi Lancer	Compact	1	20
20	Nissan Sentra	Compact	1	28
21	Pontiac G6	Compact	1	23
22	Pontiac GTO	Compact	1	16
23	Saab 9-3 Sport Sedan	Compact	1	22
24	Saturn Ion	Compact	1	23
25	Subaru Legacy AWD	Compact	1	20
26	Suzuki Aerio	Compact	1	25
27	Toyota Camry Solaro	Compact	1	24
28	Toyota Corolla	Compact	1	30
29	VW Golf	Compact	1	37
30	VW Jetta	Compact	1	36
31	Volvo S40 AWD	Compact	1	20
32	Acura RL	Midsize	2	18
33	Audi A6	Midsize	2	21
34	Audi A6 Quattro	Midsize	2	19
35	Bentley Arnage	Midsize	2	10
36	BMW 530I	Midsize	2	20
37	BMW 551I	Midsize	2	15
38	Buick LaCrosse/Allure	Midsize	2	19
39	Cadillac CTS	Midsize	2	17
40	Cadillac STS	Midsize	2	18
41	Chevrolet Epica	Midsize	2	20
42	Chevrolet Malibu	Midsize	2	24
43	Chevrolet Monte Carlo	Midsize	2	20
44	Chrysler Sebring 4-door	Midsize	2	22
45	Dodge Stratus	Midsize	2	22
46	Ferrari 612 Scagletti	Midsize	2	10
47	Ford Fusion	Midsize	2	24
48	Honda Accord	Midsize	2	24
49	Hyundai Elantra	Midsize	2	24
50	Jaguar S-Type 3.0 Litre	Midsize	2	19
51	Kia Optima	Midsize	2	22
52	Lexus 330	Midsize	2	21

53	Lincoln LS	Midsize	2	17
54	Mazda 6	Midsize	2	23
55	Mercedes-Benz E350	Midsize	2	19
56	Mercedes-Benz E500	Midsize	2	17
57	Mercury Milan	Midsize	2	24
58	Mitsubishi Galant	Midsize	2	23
59	Nissan Altima	Midsize	2	23
60	Nissan Maxima	Midsize	2	20
61	Pontiac Grand Prix	Midsize	2	19
62	Rolls-Royce Phantom	Midsize	2	12
63	Saab 9-5 Sedan	Midsize	2	18
64	Suzuki Verona	Midsize	2	20
65	Toyota Camry	Midsize	2	24
66	VW Passat	Midsize	2	22
67	Volvo S80 AWD	Midsize	2	20
68	Audi A8 L	Large	3	17
69	BMW 760I	Large	3	15
70	Buick Lucerne	Large	3	19
71	Cadillac DTS	Large	3	17
72	Cadillac Armored DTS	Large	3	14
73	Chevrolet Impala	Large	3	19
74	Chevrolet Malibu MAXX	Large	3	22
75	Chrysler 300C AWD	Large	3	17
76	Dodge Charger	Large	3	21
77	Ford Crown Victoria	Large	3	17
78	Ford Five Hundred AWD	Large	3	19
79	Hyundai Sonata	Large	3	24
80	Infinity M45	Large	3	17
81	Jaguar Super V8	Large	3	17
82	Lexus 430	Large	3	18
83	Lincoln Town Car	Large	3	17
84	Mercedes-Benz S350	Large	3	17
85	Mercedes-Benz S500	Large	3	16
86	Toyota Avalon	Large	3	22
87	VW Phaeton	Large	3	16