

# 1A.6 Learning Opportunity

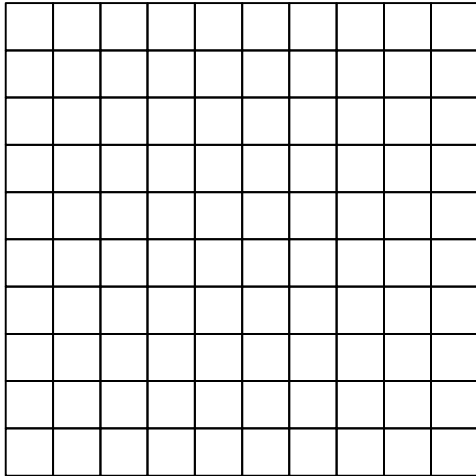
## Scatter Plots



Name: \_\_\_\_\_

<b>River Width (m)</b>	15	18	20	28	30	32	38	40	42	45
<b>Water Speed (km/h)</b>	12.6	10.7	11.2	9.7	8.1	8.7	6.9	5.4	3.9	4.1

- 1) Draw a scatter plot for the data, then, if possible, draw a line of best fit.



- 2) Use your line of best fit to predict the water speed at a point in the river where the river width is 35 meters.

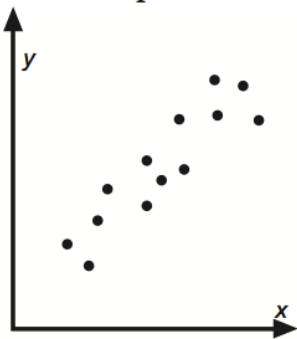
- 3) Which of the scatter plots below most likely matches these descriptions?

x-value: amount of rainfall    y-value: level of area rivers    Scatter Plot A, B, or C?

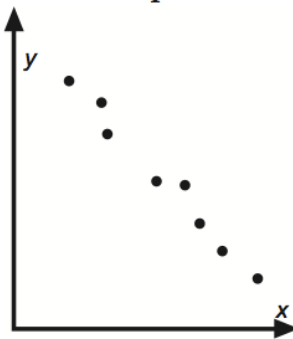
x-value: shoe size    y-value: number of pets    Scatter Plot A, B, or C?

x-value: outside temperature    y-value: snow ski sales    Scatter Plot A, B, or C?

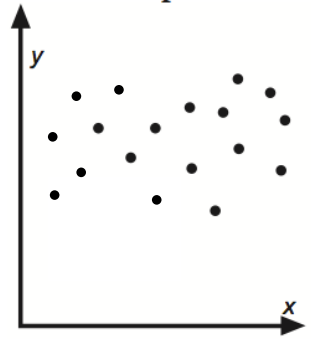
Graph A



Graph B



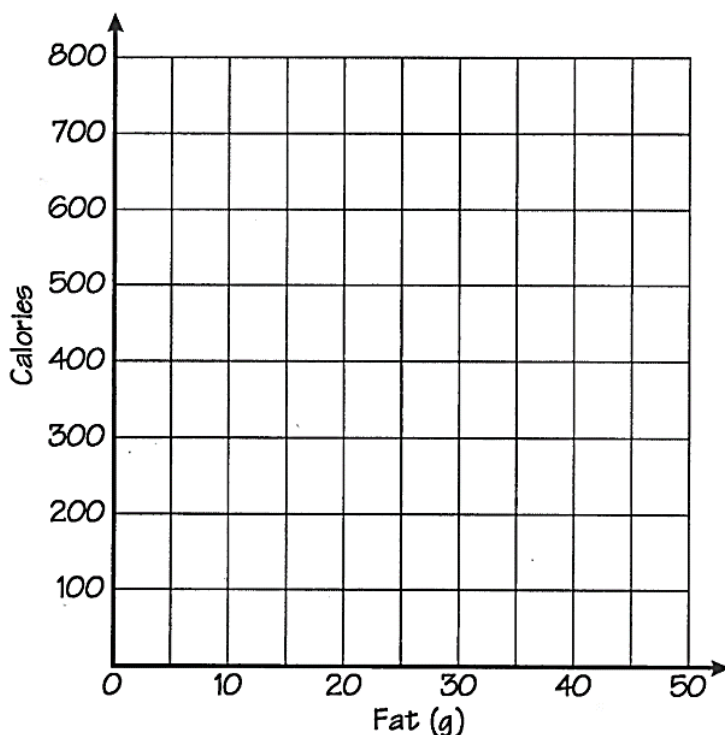
Graph C



Construct a scatter plot for each set of data below. Describe what kind of relationship, if any, is shown.

4) Fat and calories for individual servings of items sold at a Burger King® restaurant.

Item	Fat (g)	Calories
Hamburger	13	310
Cheeseburger	17	350
Bacon Double Cheeseburger	34	570
Whopper with Cheese	49	800
Original Chicken Sandwich	28	560
Chicken Whopper	25	570
BK Fish Fillet Sandwich	30	520
Chicken Tenders (5 pc)	12	210
French Fries (medium)	18	360
Onion Rings (medium)	16	320
Side Garden Salad	0	25
Ranch Salad Dressing	15	140
Chicken Caesar Salad	7	230
Caesar Salad Dressing	9	90
Sausage Croissan'wich	39	520
French Toast Sticks (5 pc)	20	390
Vanilla Shake (medium)	17	460
Dutch Apple Pie	14	340
Coca Cola (medium)	0	230



5) EPA fuel economy (city) and greenhouse gas emissions for Toyota vehicles sold in a recent model year.

	Fuel Economy (mpg)	Emissions (tons/yr)
Camry (4 cyl)	23	7.2
Camry (6 cyl)	20	8.1
Celica (4 cyl)	29	6.0
Celica Sports (4 cyl)	24	6.9
Corolla (4 cyl)	29	5.9
Echo (4 cyl)	33	5.4
Highlander (4 cyl)	21	8.4
Highlander (6 cyl)	18	9.2
Land Cruiser (8 cyl)	13	13.0
Matrix (4 cyl)	26	6.8
Prius (4 cyl)	60	3.5
RAV4 (4 cyl)	22	7.9
Sequoia (8 cyl)	14	12.4
Sienna (6 cyl)	18	9.3
Tacoma (4 cyl)	18	9.8
Tacoma (6 cyl)	17	10.5
Tundra (6 cyl)	15	11.3
Tundra (8 cyl)	14	12.1

