Name:	Date	:
		-

## Sensors and Scatterplots Activity – Class Data Sheet

## **Directions**

Record the data from your student data sheet in the table below. In the student column, circle "M" if you are a male and circle "F" if you are a female. This data will be used to create the scatterplots.

1 M F 2 M F 3 M F 3 M F 4 M F 5 M F 6 M F 7 M F 8 M F 9 M F 10 M F 11 M F 11 M F 12 M F 13 M F 14 M F 15 M F 16 M F 17 M F 18 M F 19 M F 10 M F 10 M F 11 M F 12 M F 12 M F 13 M F 14 M F 15 M F 16 M F 17 M F 18 M F 19 M F 20 M F 21 M F 22 M F 23 M F 24 M F 25 M F 26 M F 27 M F 28 M F 29 M F 20 M F 21 M F 22 M F 23 M F 24 M F 25 M F 26 M F 27 M F 28 M F 29 M F 30 M F 31 M F 32 M F 33 M F		Student		ВМІ	Systolic Pressure	Diastolic Pressure	Pulse Rate	Height
2 M F 3 M F 4 M F 5 M F 6 M F 7 M F 8 M F 9 M F 10 M F 11 M F 12 M F 13 M F 14 M F 15 M F 16 M F 17 M F 18 M F 19 M F 10 M F 10 M F 11 M F 12 M F 13 M F 14 M F 15 M F 16 M F 17 M F 18 M F 19 M F 20 M F 21 M F 22 M F 23 M F 24 M F 25 M F 26 M F 27 M F 28 M F 29 M F 29 M F 30 M F 31 M F 32 M F				5	Average	Average	Average	i i cigitt
3 M F 4 M F 5 M F 6 M F 7 M F 8 M F 9 M F 10 M F 11 M F 11 M F 12 M F 13 M F 14 M F 15 M F 16 M F 17 M F 18 M F 19 M F 20 M F 22 M F 22 M F 23 M F 24 M F 25 M F 26 M F 27 M F 28 M F 29 M F 29 M F 30 M F 31 M F 32 M F 33 M F		-						
4 M F 5 M F 6 M F 7 M F 8 M F 9 M F 10 M F 11 M F 12 M F 13 M F 14 M F 15 M F 16 M F 17 M F 18 M F 19 M F 20 M F 21 M F 22 M F 23 M F 24 M F 25 M F 26 M F 27 M F 28 M F 29 M F 30 M F 31 M F 31 M F								
5 M F 6 M F 7 M F 8 M F 9 M F 10 M F 11 M F 11 M F 12 M F 13 M F 14 M F 15 M F 16 M F 17 M F 18 M F 19 M F 20 M F 21 M F 22 M F 22 M F 23 M F 24 M F 25 M F 26 M F 27 M F 28 M F 29 M F 29 M F 30 M F 31 M F 31 M F		ł						
6 M F 7 M F 8 M F 9 M F 10 M F 11 M F 11 M F 12 M F 13 M F 14 M F 15 M F 16 M F 17 M F 18 M F 19 M F 20 M F 20 M F 21 M F 22 M F 23 M F 24 M F 25 M F 26 M F 27 M F 27 M F 28 M F 29 M F 30 M F 31 M F 31 M F 32 M F								
7 M F 8 M F 9 M F 10 M F 11 M F 11 M F 12 M F 13 M F 14 M F 15 M F 16 M F 17 M F 18 M F 19 M F 20 M F 21 M F 22 M F 22 M F 23 M F 24 M F 25 M F 26 M F 27 M F 28 M F 29 M F 30 M F 31 M F 31 M F 31 M F		-						
8       M       F         9       M       F         10       M       F         11       M       F         12       M       F         13       M       F         14       M       F         15       M       F         16       M       F         17       M       F         18       M       F         20       M       F         21       M       F         22       M       F         23       M       F         24       M       F         25       M       F         26       M       F         27       M       F         28       M       F         29       M       F         30       M       F         31       M       F         32       M       F								
9 M F 10 M F 11 M F 11 M F 12 M F 13 M F 14 M F 15 M F 16 M F 17 M F 18 M F 19 M F 20 M F 21 M F 22 M F 23 M F 24 M F 25 M F 26 M F 27 M F 28 M F 29 M F 30 M F 31 M F 31 M F 32 M F								
10 M F  11 M F  12 M F  13 M F  14 M F  15 M F  16 M F  17 M F  18 M F  20 M F  21 M F  22 M F  22 M F  23 M F  24 M F  25 M F  26 M F  27 M F  28 M F  29 M F  30 M F  31 M F  31 M F  32 M F  33 M F								
11	9	M						
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13  M  F	11	М	F					
14 M F 15 M F 16 M F 17 M F 18 M F 19 M F 20 M F 21 M F 22 M F 23 M F 24 M F 25 M F 26 M F 27 M F 28 M F 30 M F 31 M F 32 M F 33 M F	12	M	F					
15 M F  16 M F  17 M F  18 M F  19 M F  20 M F  21 M F  22 M F  23 M F  24 M F  25 M F  26 M F  27 M F  28 M F  30 M F  31 M F  32 M F  33 M F	13	M	F					
16 M F 17 M F 18 M F 19 M F 20 M F 21 M F 22 M F 23 M F 24 M F 25 M F 26 M F 27 M F 28 M F 29 M F 30 M F 31 M F 32 M F 33 M F	14	М	F					
17 M F  18 M F  19 M F  20 M F  21 M F  22 M F  23 M F  24 M F  25 M F  26 M F  27 M F  28 M F  29 M F  30 M F  31 M F  32 M F  33 M F	15	М	F					
18       M       F         19       M       F         20       M       F         21       M       F         22       M       F         23       M       F         24       M       F         25       M       F         26       M       F         27       M       F         28       M       F         30       M       F         31       M       F         32       M       F         33       M       F	16	М	F					
19 M F 20 M F 21 M F 22 M F 23 M F 24 M F 25 M F 26 M F 27 M F 28 M F 29 M F 30 M F 31 M F 32 M F 33 M F	17	М	F					
20 M F 21 M F 22 M F 23 M F 24 M F 25 M F 26 M F 27 M F 28 M F 29 M F 30 M F 31 M F 32 M F 33 M F	18	М	F					
21       M       F         22       M       F         23       M       F         24       M       F         25       M       F         26       M       F         27       M       F         28       M       F         29       M       F         30       M       F         31       M       F         32       M       F         33       M       F	19	М	F					
22       M       F         23       M       F         24       M       F         25       M       F         26       M       F         27       M       F         28       M       F         29       M       F         30       M       F         31       M       F         32       M       F         33       M       F	20	М	F					
23       M       F         24       M       F         25       M       F         26       M       F         27       M       F         28       M       F         29       M       F         30       M       F         31       M       F         32       M       F         33       M       F	21	М	F					
24       M       F         25       M       F         26       M       F         27       M       F         28       M       F         29       M       F         30       M       F         31       M       F         32       M       F         33       M       F	22	М	F					
25 M F  26 M F  27 M F  28 M F  29 M F  30 M F  31 M F  32 M F  33 M F	23	М	F					
25 M F  26 M F  27 M F  28 M F  29 M F  30 M F  31 M F  32 M F  33 M F	24	М	F					
26       M       F         27       M       F         28       M       F         29       M       F         30       M       F         31       M       F         32       M       F         33       M       F	25	М	F					
27       M       F         28       M       F         29       M       F         30       M       F         31       M       F         32       M       F         33       M       F	26	М	F					
29 M F  30 M F  31 M F  32 M F  33 M F	27	М	F					
30 M F 31 M F 32 M F 33 M F	28	М	F					
30 M F 31 M F 32 M F 33 M F								
32 M F	30	М						
33 M F	31	М	F					
	32	М	F					
34 M F	33	М	F					
	34	М	F					
35 M F	35	М	F					

ame:		Dat	e:
	Statistics fo	or Class BMI Data (Choose 4 students	at random)
		Sum of student's BMIs	
	Class Mean BM	$I = \frac{Sum \ of \ student's \ BMIs}{Number \ of \ students} = $	
Student #	BMI	(BMI – Class Mean BMI)	(BMI – Class Mean BMI) <sup>2</sup>
	Variance = Sum	$of (BMI - ClassMean BMI)^2 = \_$	
	Standard D	$Peviation = \sqrt{Variance} = $	
	Statistics for Class	Pulse Rate Data (Choose the same 4	students as above)
		·	
Class	Mean Pulse Rate	$e = \frac{Sum \ of \ student's \ Pulse \ Rates}{Number \ of \ students}$	=
		Number of students	
Student #	Pulse Rate (PR)	(PR – Class Mean PR)	(PR – Class Mean PR) <sup>2</sup>
	Variance = Sur	$n of (PR - ClassMean PR)^2 = \underline{\hspace{1cm}}$	
	Standard D	Peviation = $\sqrt{Variance}$ =	
	Statistics for Cla	ss Height Data (Choose the same 4 st	udents as ahove)
С	lass Mean Heigh	$t = \frac{Sum\ of\ student's\ Heights}{Number\ of\ students} = \frac{1}{Number\ of\ students}$	
		Number of Students	
Student #	Height	(Height – Class Mean Height)	(Height – Class Mean Heigh
I/a	riance - Sum of	$(Hoight - ClassMoon Hoight)^2 -$	
Va	riance = Sum of	$(Height - ClassMean Height)^2 =$	