Dialogy 4605 / 7220	Mama	Key	
Biology 4605 / 7220 Worksheet Single Variable	Name Short Assignment A3 Y	r 2020 Oniz	6 Vear 2015
<u> </u>		1 2020 Quiz	0 1 car 2015
1. Walking Babies. Cobb (2015 Design		Age	Ex
Experiments p 150) reported the age (in m	•	rst 9	Special
walked. The goal of the study was to find	•	9.5	Special
exercise lowered the age, compared to 3 control groups: (1) 12 minute/day of unstructured exercise; (2) no exercise and a weekly parental report; (3) no exercise and a single parental report at the end of the study. Six baby boys were assigned randomly to each level, only 5 values were obtained for the single parental report babies.		9.75	Special
		10	Special
		<sup>110</sup> 13	Special
		9.5	Special
only 5 values were obtained for the single	parental report bables.	11	Exercise
1a. Complete the table, use A for age and	Ex for Exercise group	10	
Name Symbol Resp/Explanatory Ty	vpe (NOIR) Rand/Fixed	10	<del>_</del>
		11.0	
Age A Response		10.5	
Ex Greap Ex Explanatory	Nominal	15	
1b. 2c. Justify your choice of random or		· 11	, ,
			• •
Inferring only to  arising from exp  Number of groups being compared  Sample size across all groups  6*	4 named cateryo	11.5	
arisina luma exa	en mont goals	13.3	• •
Number of groups being compared	4 [	1] 13	
Sample size across all groups 6 *	3+5=23 [	13.3	Single Report
•		11.5	Single Report
		12	Single Report
1a. Write a GLM, using A for age, and E	y for Exercise group	[5] 13.5	Single Report
_		11.5	Single Report
A = Bot BEX E	-x + &		•
1b. The SS <sub>group</sub> for this data was 14.448			
Complete the ANOVA table	Section 2015		
Df Sum of Sq Mear	Sq F-ratio Pr(F)		H
	816 2.075 0.137		
	321		
Total 22 58.554			
The p-value shown is for 14.448.			

[1]

What happens to the p-value when SS<sub>group</sub> increases? It decreases