

LESSON 10.2 Assignment

Name _____ Date _____

It's So Hot Outside!
Relative Frequency Distribution

1. The principal of Umber Elementary School (grades K – 4) would like to reward his students for recent good test scores on a standardized test. He thinks of four different types of assemblies. In order to please the most students, the principal asks his teachers to survey the students in their classes. The students from each grade are asked which assembly they would most want to see. The table shows the responses gathered from the surveys.

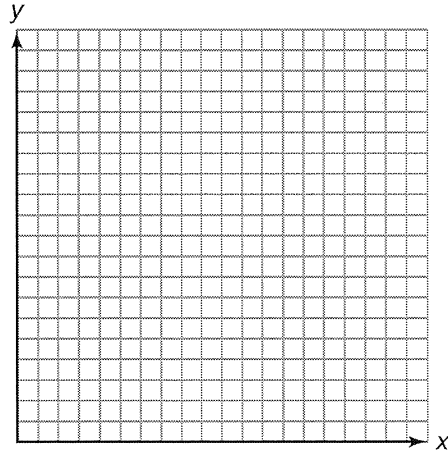
	Wild Animals	Hip Hop Show	Magic Show	Puppet Show
Kindergarten	18	5	8	33
Grade 1	26	10	21	15
Grade 2	21	19	17	12
Grade 3	22	28	20	8
Grade 4	19	44	7	2

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- a. Construct a relative frequency distribution and relative frequency marginal distribution of the data.

	Wild Animals	Hip Hop Show	Magic Show	Puppet Show	Total
Kindergarten					
Grade 1					
Grade 2					
Grade 3					
Grade 4					
Total					

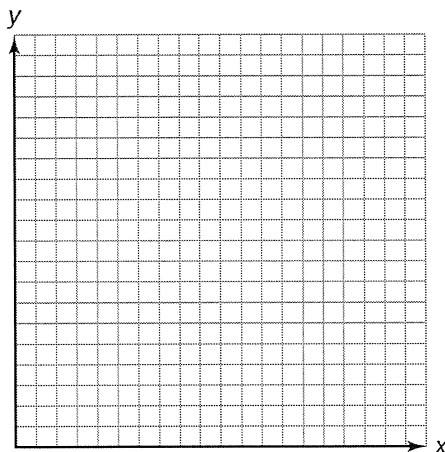
- b. The principal wants to choose one assembly that he can show to all of the students. Construct a stacked bar graph of the relative frequency distribution. Then tell which assembly he should choose for the students. Explain how you determined your answer.



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- c. The principal now thinks that each grade should get its own assembly. Construct a stacked back graph of the relative frequency distribution then tell which assembly should be shown to each grade. Explain how you determined your answer.



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- d. The principal has come up with an idea to hold a hip hop assembly for Grades 1 through 4 and a puppet show for Kindergarten. Do you think this is a good idea? Explain your reasoning.