

Name: _____ Period: _____

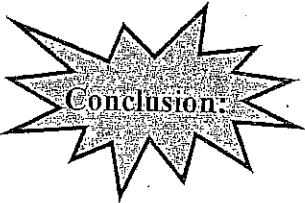
PROPORTIONAL &
NON- PROPORTIONAL
RELATIONSHIPS

"TO BE OR NOT TO BE PROPORTIONAL"

Dylan makes \$336 for 32 hours of work, and Angela makes \$420 for 42 hours of work.

1] How much do Dylan and Angela each make per hour?

2] Is Dylan's wage for 25 hours proportional to Amber's wage for 42 hours? Why or why not?



To determine proportionality between two ratios or rates,

Find the ratio of y to x for Table 1 and Table 2, simplify the fraction to simplest form, and answer the questions that follow.

Table 1:

NUMBER OF HOURS	TOTAL COST (\$)	RATIO: $\frac{y}{x}$
1	\$75	
2	\$120	
3	\$165	
4	\$210	
5	\$255	

Table 2:

NUMBER OF HOURS	TOTAL COST (\$)	RATIO: $\frac{y}{x}$
1	\$45	
2	\$90	
3	\$135	
4	\$180	
5	\$225	

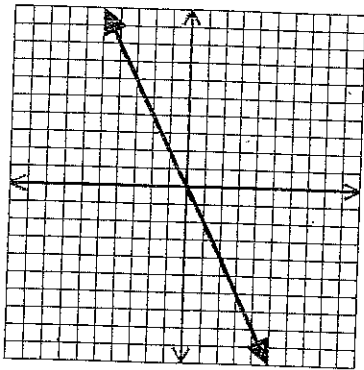
3] Which table shows a proportional relationship?

4] What makes it a proportional relationship?



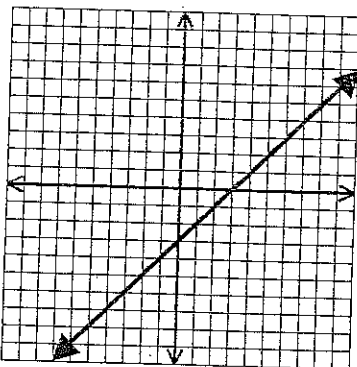
To determine proportionality from a table,

11.



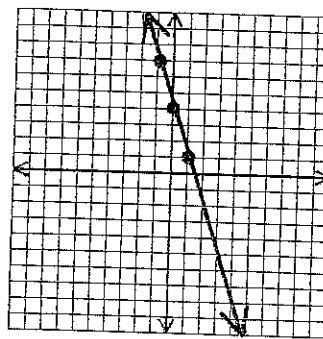
Proportional non-proportional

12.



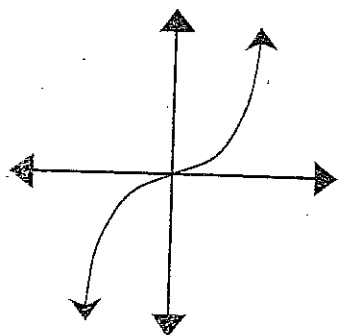
Proportional non-proportional

13.



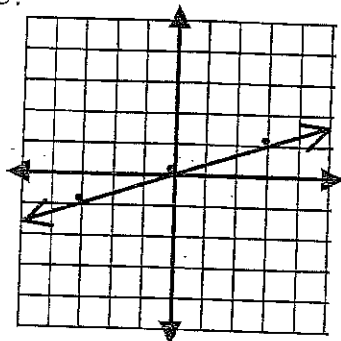
Proportional non-proportional

14.



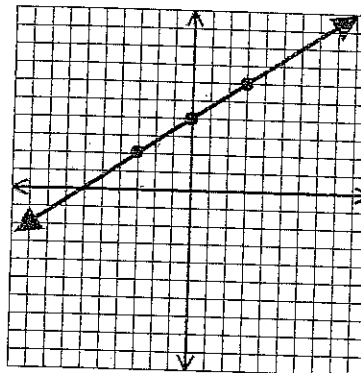
Proportional non-proportional

15.



Proportional non-proportional

16.



Proportional non-proportional

17. Is the following relationship proportional? Explain.

Number of Movie Tickets (x)	Total Cost of Tickets (y)	$\frac{y}{x}$
1	-6	
2	-12	
3	-18	
4	-24	

18. How is a proportional relationship different from a non-proportional relationship?