Math 7 Notes

Proportional and Nonproportional Relationships
(Section 1-4)

Two quantities are proportional if they have a constant ratio or unit rate.

If they do not have a constant ratio or unit rate, they are nonproportional.

How can we show that two objects are proportional? Look at ratios Are they the same?

Proportional or Not?

Uptown Tickets charges \$7 per baseball game ticket plus a \$3 processing fee per order. Is the cost of an order proportional to the number of tickets ordered?

- * Make a chart to show different possibilities
- * Show the simplified ratios for each situation
- * Decide if they are always the same or not

	3	3	3	'3'	
Cost (\$)	10	177	24	131	
Tickets (# ordered)	1	2	3	4	

Cost 10 17 34 31 tickets 10 850 88 87.75

not organizational

Proportional or Not?

Mrs. Cochran is planning a year end pizza party for her students. Ace Pizza offers free delivery and charges \$8 per medium pizza.

1 * Make a chart to show different possibilities

* Show the simplified ratios for each situation

3 * Decide if they are always the same or not

Cost	(\$)	8	16	24	32	 T
Pizza (# of)	1	2	3	4	
act	_	3	16	24	32	
izza			^	3	4	
	(8	9	4	8	(8)	

cost is proportional to the # of gizzar

Proportional or Not?

Is the amount of sugar used proportional to the amount of mix used to make this fruit punch? Show proof.

or mix	used to mak		Punch Rea		7 Show	proof.	
	Cups of Sugar	$\frac{1}{2}$	1	$1\frac{1}{2}$	2		
	Emelopes of Mix	1	2	3	4		
Sign	1 2	E (-12/3 SIM SI/LA	24 (-12)		

Is proportional Ratio of sugar to mix is always &







