Hor	10ľ	s /	Alge	eb	rall					
Section 5.1										
1	Model Inv	erse a	nd Joint V	aria	tion					
VOCABULARY										
Inverse Variation:	y = a/x	or		; 8	also a is not = to zero					
<u>Constant of Variation</u> :	a									
Direct Variation:	y = ax									
Joint Variation:	z = axy	or	w = axyz							
EXAMPLE 1 Tell whet	her x and y	show d	lirect variat	ion, il	nverse variation or neither.					
a) xy=7				-						
b) y = x + 3				-						
c) y/4=x				-						
d) y - 3x = 0				-						
EXAMPLE 2 X and Y v relates X	ary invers and Y. The	ely, and n find Y	y = 7 when / when X = -	x = 4 2.	. Write and equation that					

<ul> <li>b) Make a table of player if the average Song Size</li> <li>Average Song Size</li> <li>Number of Songs</li> <li>c) What happens to the second secon</li></ul>	values showing t erage size of a so 2 2.5 o the number of s	the numbo ng is 2ME 3 3 songs as t	er of song 8, 2.5MB, 3	s that wil 3MB and 5	ll fit on the MP3 5 MB.
Average Song Size Number of Songs c) What happens t	2 2.5	3	he average	5	_
Number of Songs c) What happens t	o the number of s	songs as t	he averag		—
c) What happens t	o the number of s	ongs as t	he averad		
c) wnat nappens t	o the number of s	songs as t	ne averan		
	Area (mm²), A	58	62 6	66 70	
	Number of chips, c	448	424 3	92 376	5
a) Write a model tl <u>Steps</u> 1) Find the produc	hat gives c as a fu t of each coordin	unction of ate	<b>A</b> .		

