2	-2A Lesson Master Ques See Student Edition	estions on SPUR Obje n pages 143–147 for obj	ect
S	KILLS) Objective A		
 In 1	and 2, write a variation equation representing the situation.		
1.	<i>y</i> varies inversely as the square of <i>x</i> .		
2.	The size s of each piece of pie is inversely proportional to the number n of people who are sharing the pie equally.		
3.	Fill in the Blanks If $c = \frac{3}{4b^2}$, then varies inversely as the second	the power	
	of The constant of variation is		
SI	KILLS Objective B		
4.	Suppose y varies inversely as x and y is 12 when x is 5. Find y when x is 3.		
5.	Suppose <i>t</i> is inversely proportional to the cube of <i>s</i> , and $t = 18.2$ when $s = 120$. Find the constant of variation.	en	
6.	Suppose <i>N</i> varies inversely as the square of <i>d</i> , and $N = 100$ when $d =$ Find <i>N</i> when <i>d</i> is 7.5.	= 5.	
(U	SES Objective F		
In 7 inve	 -10, determine whether the two variables represent a direct variatio rse variation, or neither. 	on,	
7.	The intensity of light and the distance from the light source.		
8.	The number of fans at a football game and the score of the game.		
9.	The area of a pizza and its diameter.		
10.	The time it takes to walk to your friend's house and your speed.		
	RES Objective C		
11.	The number of square tiles it takes to cover a floor varies inversely a the square of the length of a side of the tile. If it takes 140 12-inch tiles to cover a kitchen floor, how many 6-inch tiles will it take?	as 	
12.	The number of pieces of spherical fruit that you can pack in a box varies inversely as the cube of the diameter of each piece. If you can fit 106 oranges (3" diameter) in a certain box, how many grapefruit (5" diameter) can you fit in the same box?		