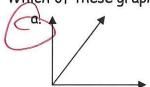
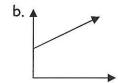
## **Direct Variation**

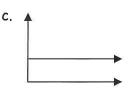
Homework

Name \_\_\_\_\_\_Period \_\_\_\_

1. Which of these graphs show direct variation?







C.

2. Complete the tables so that the ordered pairs show a direct variation.

α.	Je=12	
<b>31</b>	X	y
	2X12	24
	4812	48
	7 812	84
	12×2	144

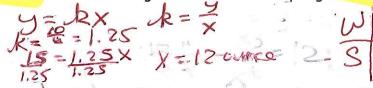
JR = -4		
X	y	
-3 x-4	12	
8,-4	-32	
154	-60	
194	-76	

	k	-6.5
	X	У
-1 534.01	1	6.5
	5 16.	\$ 32.5
	7	45.5
	8	52

3. The amount a spring stretches varies directly as the weight of the object attached to it.

An 8-ounce weight stretches a spring 10 cm. How much weight will stretch the spring 15 cm?

Answer 12-ounce



W/8/X -S/10/15

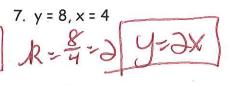
4. The <u>distance</u> between two towns on a map varies directly with the <u>actual distance</u> between the towns. Seven and a half inches on the map represents 150 miles. What is the actual distance represented by 11 inches on the map?

Answer 200 miles

mary 7.5 11

In each of the following problems, the value of y varies directly with x. Write the direct variation equation.  $U = \mathbb{R} \times$ 

5. 
$$y=9, x=3$$
 $R=\frac{9}{3}=3$ 
 $Y=3X$ 



8. 
$$y = 8, x = 12$$

$$R = \frac{2}{3}$$

$$y = \frac{3}{3} \times \frac{3}{3}$$

