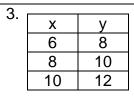
DIRECT VARIATION

Determine if the relationship is a direct variation. If so, write the equation.

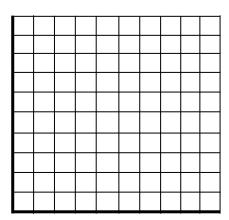
1							
١.	Х	10	5	2			
	У	12	7	4			

2				
۷.	Х	-6	3	12
	у	4	-2	-8



Х	У
2	0.8
5	2
20	8

5. While on his way to school, Norman saw that the cost of gasoline was \$3.00 per gallon. Write a direct variation equation to describe the cost *y* of *x* gallons of gas. Then graph.



6. The area a painter can paint varies directly with the amount of time he works. One morning, he painted 200 ft² between 8:00 a.m. and 1:00 p.m. Write a direct variation equation to describe the area y covered in x hours.

7. The mass of a substance varies directly with the volume of the substance. The volume of 80
kilograms of a substance is 60 liters. What is the volume in liters of 3.2 kilograms of the substance?

8. If y varies directly as x, and y is 42 when x is 12, which of the following represents this situation?

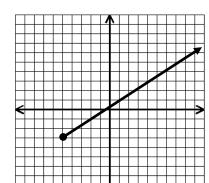
A.
$$y = 30x$$

B.
$$y = 54x$$

C.
$$y = \frac{7}{2}x$$

B.
$$y = 54x$$
 C. $y = \frac{7}{2}x$ D. $y = \frac{2}{7}x$

_9. What is the range of the graph shown?

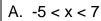


A.
$$x \ge -5$$

C.
$$x \ge -3$$

D.
$$y \ge -3$$

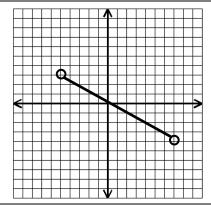
_10. What is the domain of the graph shown?



B.
$$-5 < x < 3$$

C.
$$-4 < x < 7$$

D.
$$-4 < x < 3$$



Answers in random order: Yes, $y = \frac{2}{5}x$: C, y = 40x, A, Yes, $y = -\frac{2}{3}x$; y = 3x, No, D, No, 2.4