

Name: _____

Date: _____

1. Which of the following equations shows a relationship in which y is directly proportional to x ?

I. $y = 2x + 1$

II. $y = 2x$

III. $y = \frac{x}{2}$

- A. I only B. II and III only
C. I and II only D. I, II and III

2. Which of the following equations shows a relationship in which y is inversely proportional to x .

I. $y = -x$

II. $y = \frac{1}{x}$

III. $xy = 8$

- A. I only B. II only
C. II and III only D. I, II and III

3. Which of the following tables shows a relationship in which y varies directly as x ?

I.

x	y
3	1
4	2
5	3

II.

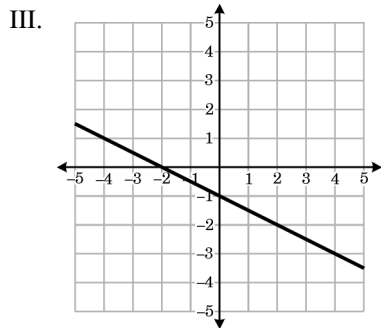
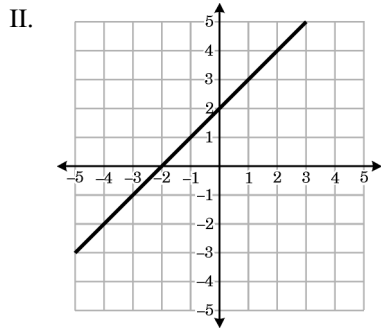
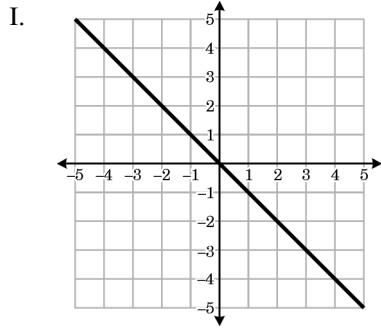
x	y
3	9
4	12
5	15

III.

x	y
3	7
4	9
5	11

- A. I only B. II only
C. II and III only D. I, II and III

4. Which of the following graphs shows a relationship in which y varies directly as x ?



- A. I only B. II and III only
 C. I and III only D. I, II and III

5. Which of the following tables shows a relationship in which y varies inversely as x ?

I.

x	y
-2	-1
4	$\frac{1}{2}$
8	$\frac{1}{4}$

II.

x	y
-4	$\frac{1}{4}$
1	-1
3	$-\frac{1}{3}$

III.

x	y
-2	1
4	$\frac{1}{5}$
7	$\frac{1}{8}$

- A. I only B. II and III only
 C. I and II only D. I, II and III

6. If y is directly proportional to x and if $y = 16$ when $x = 6$, what is the value of y when $x = 9$?

- A. 8 B. 16 C. 24 D. 64

7. If y is directly proportional to x and if $y = -6$ when $x = -15$, what is the value of x when $y = 4$?

- A. -12 B. -10 C. 6 D. 10

8. If y is inversely proportional to x and if $y = \frac{1}{2}$ when $x = 4$, what is the value of y when $x = 1$?

- A. $\frac{1}{2}$ B. 1 C. 2 D. 4

9. If y is inversely proportional to x and if $y = 8$ when $x = 12$, what is the value of y when $x = 6$?

- A. 2 B. 8 C. 16 D. 32

10. It takes a people b hours to complete a certain job. How many hours would it take for c people to complete the same job?

- A. $\frac{ac}{b}$ B. $\frac{ab}{c}$ C. $\frac{a}{bc}$ D. $\frac{b}{ac}$

01/28/2017

1.
Answer: B
2.
Answer: C
3.
Answer: B
4.
Answer: A
5.
Answer: C
6.
Answer: C
7.
Answer: D
8.
Answer: C
9.
Answer: C
10.
Answer: B