Name:	Class:	Date:

ID: A

Joint Variation

_____1. Which of the following shows the correct joint variation for the table?

	у	W	m			
	2	3	-54			
	4	2	-72			
	5	3	-135			
	4	2	-72			
a	m =	-9_{VW}		-	d	
ы. b.	y = -	-9wm			е.	
c.	y = -	-8 <i>wm</i>			f.	

2. Which of the following shows the correct joint variation for the table?

	$\begin{array}{c} m \\ -2 \\ -1 \\ -2 \\ -3 \end{array}$		ine is turn ()
a. $y = 2$	4mz	100	d. $y = 3mz$
b. $m = 2$	3yz		e. $m = 4yz$
c. $z = 2$	4ym		f. $z = 3ym$

3. What is the value for *k* in the equation v = kfu?

f	V	u
2	-8	-2
1	-2	-1
-1	4	-2
-2	4	-1

- 4. In the equation z = kxy, x = -6, k = 1, and z = 54. If x remains the same, what is the value of y when z is 48?
- 5. In the equation z = kxy, k = -3, x = 1, and y = 5. If y remains the same, what is the value of x when z is 45?

h	С	r
4	-5	60
2	_4	24
3	-3	27
2	_4	24

_ 6. Which of the following shows the correct joint variation for the table?

a.	h = -4cr	d.	c = -4hr
b.	c = -3hr	e.	h = -3cr
c.	r = -3hc	f.	r = -4hc

_ 7. Which of the following shows the correct joint variation for the table?

g	а	k
1	-8	2
2	-32	4
3	-36	3
2	-16	2

a.	k = -5ga	d.	a = -5kg
b.	g = -5ka	e.	g = -4ka
c.	a = -4kg	f.	k = -4ga

8. What is the value for k in the equation q = kfy?

q	у	f
-36	-2	2
0	-3	0
36	_4	-1
0	-3	0

- 9. In the equation z = kxy, k = -6, x = -6, and y = 4. If x remains the same, what is the value of z when y is 1?
- 10. In the equation z = kxy, y = 2, z = 96, and x = -6. If z remains the same, what is the value of y when x is -8?

Joint Variation Answer Section

- 1. A
- 2. C
- 3. 2 4. -8
- 5. –3
- 6. C
- 7. C
- 8. 9
- 9. 36 10. -1