Direct V	/ariation ((1))
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Name: _____ Class: ____ (____) Date: ____

Question	Given that y varies directly as x^2 . When $x = 2$, $y = 24$. Express y in terms of x .	2.	Given that y varies as x . When $x=6$, $y=2$. Express y in terms of x .	3.	Given that y varies directly as x^3 . When $x = 3$, $y = 54$. Express y in terms of x .	4.	Given that y varies directly as \sqrt{x} . When $x=16$, $y=2$. Express y in terms of x .
1. Write down an equation connecting the variables (including the variation constant <i>k</i>)							
2. Substitute the values of the variables to find <i>k</i>							
3. Write down an equation connecting the variables again (substituting the value of <i>k</i>)							

Direct	Variation	(2)
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Name: _____ Class: ____ (____) Date: ____

	Question	5. Give that z varies as x^4 . When $x=3$, $z=27$. Express z in terms of x.	6. Given that A varies as x^2 . When $x = 4$, $A = 20$. Express A in terms of x .	7. Given that P varies as \sqrt{n} . When $n=100$, $P=25$. Express P in terms of n .	8. Given that s varies as t^3 . When $t = 4$, $s = 32$. Express s in terms of t.
-	1. Write down an equation connecting the variables (including the variation constant <i>k</i>)				
	2. Substitute the values of the variables to find k				
-	3. Write down an equation connecting the variables again (substituting the value of <i>k</i>)				

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Inverse	Variation	(1)

Name:	Class: ()	Date:
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Question 1.	Given that y varies inversely as x . When $x=2$, $y=6$. Express y in terms of x .	2. Given that y varies inversely as x^2 . When $x = 3$, $y = 4$. Express y in terms of x .	3. Given that y varies inversely as \sqrt{x} . When $x = 4$, $y = 5$. Express y in terms of x .	4. Given that y varies inversely as x^3 . When $x = 2$, $y = 0.5$. Express y in terms of x .
1. Write down an equation connecting the variables (including the variation constant <i>k</i>)				
2. Substitute the values of the variables to find <i>k</i>				
3. Write down an equation connecting the variables again (substituting the value of <i>k</i>)				

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Name: _____ Class: ____ (____) Date: ____

Question	5. Given that P varies inversely as x . When $x = 2$, $P = 15$. Express P in terms of x .	6. Given that S varies inversely as n^2 . When $n = 5$, $S = 1$. Express S in terms of n .	7. Given that z varies inversely as \sqrt{x} . When $x = 361$, $z = 106$. Express z in terms of x .	8. Given that L varies inversely as t^3 . When $t=2$, $L=\frac{2}{3}$. Express L in terms of t .
1. Write down an equation connecting the variables (including the variation constant <i>k</i>)				
2. Substitute the values of the variables to find <i>k</i>				
3. Write down an equation connecting the variables again (substituting the value of <i>k</i>)				