	Past Paper Quest er Maths Sample	THE PARTY OF THE P	r	Topic: Direct & inve	erse proportion		
		nversely proportiona	I to x^2 , and that y	y = 5 when $x = 2$,			
	(a) find an expression for y in terms of x .						
(b)	Use the exp	pression you found i	n <i>(a)</i> to complete	the following table.	[2]		
	x	2	0.5				
	у	5		0.2			
Giver (a) (b)							
	X	36	49				
	у	30		40			
	find an expres	ely proportional to x sion for y in terms of	f x,	when <i>x</i> = 3,			
(b)	(b) use the expression you found in (a) to complete the following table.						

х

 \boldsymbol{y}

0.25

<u>1</u>

3

4

WJEC Past Paper Questions Tier: Higher Topic: Direct & inverse proportion

Higher Maths Nov 2018 P1 Q12

Catrin is measuring the force between a pair of magnets in a physics laboratory. It is known that the force, F, between the magnets is inversely proportional to the square of the distance, d, between them.

Catrin measures the force to be 4 newtons when the distance between the magnets is 10 m.

What is the distance between the magnets when the force is 100 newtons? [5]

High	er Maths Nov 2017	P1 Q13				
Give	n that y is inversely $\mathfrak p$	proportional to x^3 an	d that $y = 120$ whe	en x = 2,		
(a)	find an expression for y in terms of x ,					
					······································	
				f-11 t-b-1-	[2]	
(b)	use the expression you found in part (a) to complete the following table.					
	x	2	10			
	v	120		15		