Burglary Mystery Algebra

Who

One of the 4 characters below has stolen Mrs C's jewellery. Analyse the number problems to discover the thief

Each one has said which of the numerical statements they believe are true or false. The innocent people have only made 1 or 2 errors. The guilty person has made 3 errors. Answer TRUE or FALSE to the next set of questions

 A) 4t and 6t are like terms B) 5g and 5t are like terms C) G = 23- t is an expression D) 3acd and 6cda are like terms 	E) 5mt + 2d is a Term F) 4mt + 5f is an expression G) G = 5t + 8 is an equation H) rt = r x t							
The Farmer said A is true C is true D is false H is true	D is false							
The journalist said G is True C is true D is true F is true	The Engineer said D is true C is false E is true B is false							

Where

The Burglary took place for the correct expression to: Chris is 2 years older than Jenny. If Jenny is y years old then the expression for Chris's age is

Warnambool if this is correct	y - 2
Wyndham if this is correct	2у
Maryborough if this is correct	Y + 2
Morgan if this is correct	2

Menindee if this is correct y/2																							
Whe	When Calculate each answer to find the time and date																						
The formula used is										A)b = a + 5 The time was 9 14 nm							B) b = $3a$ The time was 19.24						
A U 1 3 6 36										C = 2							1 ne 11me was 19:24						
В	8 3	8	C) D = 1 The til	L	7 24	lnm		U) D : The t	= a - : ime v) Vac 11.	1 1 r	h											
									THE III		//u3	/.⊑	' P'''		The time was 11:14 pm								
		Th	e for	mu	la us	sed is			A)a =8	b +	1		· · -		B) a = 3b + 5								
Ь	1	2	9	1	4 6	5			The do	ite	was	3/1/	/15		The date was 1/5/15								
A	A 9 11 25 35 13										- 7				D) a =	= b + 8	8						
											was	1/7/	/15		The c	late v	vas 3/2	11/1	15				
Why	Why. Decode the message to find out why Mrs C's jewellery was stolen																						
Sub	stitu	te ·	the g	ive	n va	lues into	eacl	h f	ormula	ı to	fir	nd t	he vo	alue	of tl	ne fo	ollowir	ng					
pror	pronumerals																						
		۵				Ь				С				Ċ	1			e					
A =	g-2 v	whei	n g = 4	1	B = g	- 2 when	g = 5		C = 2†	- 3	whe	en	D =	2† -	3 wh	en	E= 12h + 7 when						
										= 7	,			† :	-2		h = 1						
	4.01	f		_	•	<u>g</u>				T - 2	(1)			j									
E	= 12h	+/	when		6=	25 - 4w v	H	1 = 25 -		1 = 2	(g +1)	wnen	g =	J = 2(g + 1) when $q = 12$									
	n	- 0				W - 1		w							-								
			S	imp	lify [.]	the follow	ving e	xpi	ression	s to) fir	nd vo	alue d	of pr	onum	eral							
		k				I				m				1	۱		0						
6y - 2	2y + y				8† -	2m + 3†	7	⁷ g +8g + 8 - 4				2	b + 7	′c +8b	6	6b + 3c + 4b - c							
						Expand th	ne fo	llow	vina and	d si	mpli	fy i	f pos	sible	:								
		p				Q				r					5		t						
7(m -	- 3k)	<u> </u>			W(G	; + 9a)		2y(8h		10m	(7r	-2p)	4	4j(6x - 3y)									
								_	1/01)	< <u> </u>		y or z								
5(† -	25) -		4(a+	3g) - 2g		d(3† +	9)-	- 2d		4z(2-a)-	-/z	3	p(†-2q	1)+/	р							
Beca	use	••																					
70mr - 20pm 5 19						24jx-12jy 5			10b+2c 2t-10			10s	21 5 24			24jx	4jx-12jy 2						
11	4 16yh-14y 11 11t-2m 19						3f	d+7d	70mr-	20pm	2	l6yh-14	ły	10b+2	с	2†-10s							
														-									
10b+7c 1 70mr-20pm 24jx-12jy 1								16	yh-14y	4	21	5	24jx-	·12yj	j 11 5								

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2	4	10	b +7c		3fc	l+7d	4		24jx-	12ју	2	5	10b+2c		11†-2m	19	4	10b+7c
24jx-12jy		5	19		15g+4		4		1	1	11†-	11†-2m		9				
									Fi	nal Ac	cuso	tion						
Wh	0																	
Wh	ere																	
Wh	en																	
Wh	у																	