

## Nfed Term

1.

Darganfyddwch *n*fed term y dilyniannau canlynol.

(a) 3, 13, 23, 33, 43, ....

.....  
 ..... [2]

(b) 50, 40, 30, 20, 10, ....

.....  
 ..... [2]

2.

Ysgrifennwch fynegiad ar gyfer *n*fed term y dilyniant canlynol. [2]

10, 21, 32, 43, 54, .....

.....  
 .....  
*n*fed term .....

3.

Ysgrifennwch *n*fed term y dilyniannau canlynol.

(a) 6, 13, 20, 27, .....

.....  
 ..... [2]

(b) 26, 20, 14, 8, .....

.....  
 ..... [2]

4.

(a) Darganfyddwch yr *n*fed term ar gyfer y dilyniant canlynol.

12, 9, 6, 3, 0, -3, ...

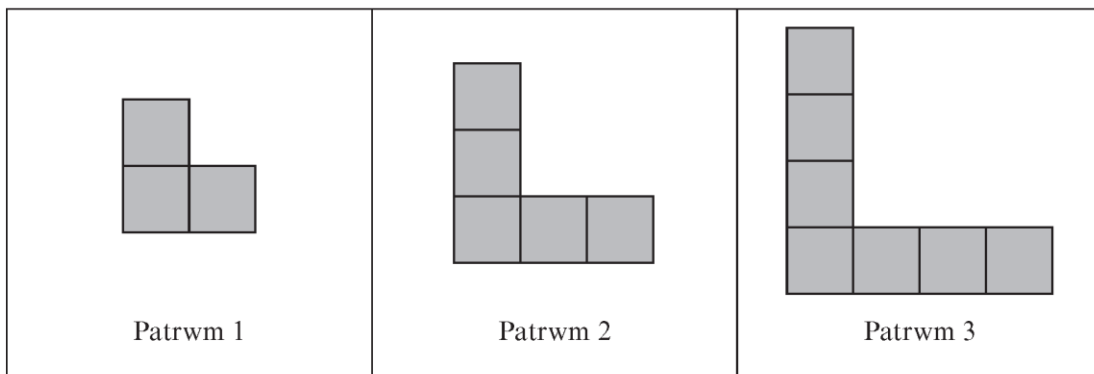
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[2]

(b) Mae patrymau'n cael eu gwneud gan ddefnyddio sgwariau bach.



Darganfyddwch fynegiad ar gyfer nifer y sgwariau ym Mhatrwm *n*.

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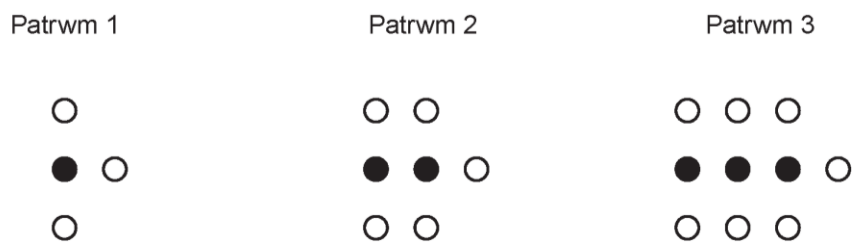
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.....

[2]

5.

Mae patrymau sydd wedi'u gwneud â chylchoedd du a gwyn yn cael eu dangos isod.



Cwblhewch y gosodiadau canlynol, yn nhermau *n*.

[3]

'Bydd ..... o gylchoedd du ym Mhatrwm *n*.'

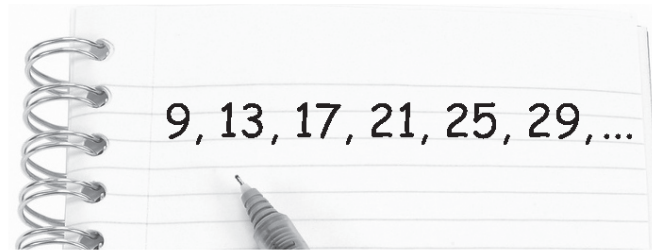
'Bydd ..... o gylchoedd gwyn ym Mhatrwm *n*.'

.....

.....

6.

Mae Dewi yn ysgrifennu 6 rhif cyntaf dilyniant ar lyfr nodiadau.



- (a) (i) Ysgrifennwch  $n$ fed term dilyniant Dewi. [2]

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.....

- (ii) Mae Carys yn dweud bod 149 yn y dilyniant sydd gan Dewi.  
Ydy Carys yn gywir?  
Rhaid i chi egluro eich ateb. [1]

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## Cynllun Marcio

1.

15. (a) $10n - 7$ (b) $-10n + 60$ or equivalent	B2 B2 4	B1 for sight of $10n$ For B2 mark final answer. B1 for sight of $-10n$
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2.

Unit 2 GCSE Maths June 2015 Higher Tier	T I C K	M A R K	Comment
6. $11n - 1$		B2	B1 for sight of $11n$ or $11 \times n$ or equivalent

3.

14. (a) $7n - 1$ (b) $-6n + 32$	B2 B2 4	B1 for $7n \pm \dots$ B1 for $-6n \pm \dots$
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4.

5(a) $-3n + 15$ or equivalent	B2	B1 for sight of ' $-3n$ '
5(b) $2n + 1$ or equivalent	B2	B1 for ' $2n + \dots$ ', OR for sight of 3, 5, 7 showing difference of 2, NOT for ' $n+2$ '

5.

19. n (black) $2n + 1$ or equivalent (white)	B1 B2	Accept use of N  B1 for $2n$ or equivalent <i>Penalise use of other letters -1 only</i>
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6.

2015 Summer Linear Paper 1 Higher Tier		Comments
12(a)(i) $4n + 5$ or equivalent unsimplified	B2	B1 for sight of $4n$
12(a)(ii) States or implies 'YES' with a reason, e.g. 'yes as $149 - 5 = 144$ and this can be divided (exactly) by 4', OR 'correct as 144 is a multiple of 4', OR ' $n = 36$ ', OR 'adding 4 repeatedly after the 29 giving 149', OR 'Yes as $(149 - 29) \div 4$ is a whole number'	E1	Do not award for 'correct' or 'yes' without a valid reason Accept ' $n=36$ ' as 'implies yes' Accept correct full sequence to 149 or partial sequence shown with at least 3 correct terms including 149, e.g. 145, 149, 153 or 49... 69... 129 ... 149 FT based on $149 - \text{'their 5'}$ then divided by 4, provided equivalent level of difficulty