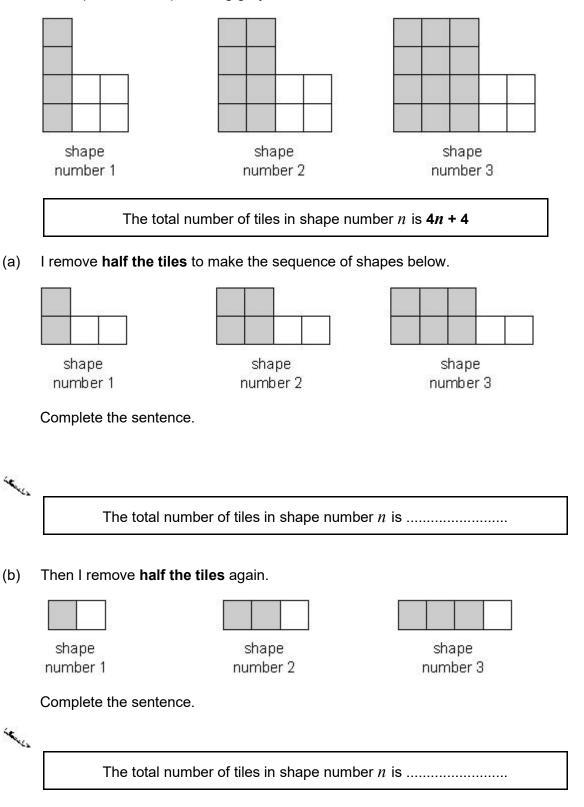


KS3

Tile patterns

I make a sequence of shapes using grey and white tiles.



1 mark

1 mark

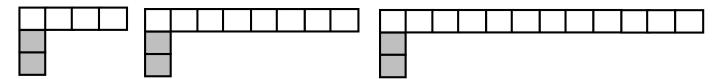


(a) The total number of tiles is half of 4n+4
so
$$\frac{4n+44}{2} = 2n+2$$

(b) The total number of tiles is half of $2n+2$
so $\frac{2n+2}{2} = n+1$



I make a sequence of shapes using grey and white tile.

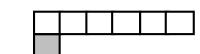


The total number of tiles in shape number n is 4n + 2

a. I remove half the tiles to make the sequence of shapes below.







Complete the sentence

The total number of tiles in shape number n is

b. Then I double the tiles in the original diagram to make the sequence below.

Complete the sentence

The total number of tiles in shape number n is

Answers:						
a.	2n + 1					
b.	8n + 4					

