Preparing for Factoring Trinomials by Decomposition

#1.

$4x^2 +$ 9 $x + 5$

(a)   (c)

Use the trinomial above to complete the following table. The first, two rows have been done as an example.

9x-term decomposed	Coefficients of Decomposition	Product, ac	Are the coefficients both factors of ac?
1x + 8x	1, 8	4(5) = 20	Yes; 1 and 8 are both factors of 20
2x + 7x	2, 7	20	No
		20	
		20	
		20	

#2.

$4x^2 +$ [12] $x + 5$ $\longleftarrow$ Now try this one.

(a)   (c)

Use the trinomial above to complete the following table.

12x-term decomposed	Coefficients of Decomposition	Product, ac	Are the coefficients both factors of ac?
		$4(5) = 20$	
		20	
		20	
		20	
		20	