Factoring $ax^2 + bx + c$ where $a \neq 1$

$10x^2 - 9x + 6 =$
$(5x - 3)(2x + 2)$ ~~(WRONG)~~

$10x^2 + 19x + 6 =$
$(5x + 2)(2x + 3)$ (RIGHT)

Tip

Be sure to "FOIL" your answer and check the middle term when trying number combinations.

Factor each trinomial. Use the code to learn what famous event was held on Max Yasgur's farm in 1969.

1. $2x^2 + 5x + 3 =$
2. $2x^2 + 7x + 3 =$
3. $5x^2 + 6x + 1 =$
4. $8x^2 + 6x + 1 =$
5. $7x^2 - 8x + 1 =$
6. $14x^2 - 9x + 1 =$
7. $5x^2 - 16x + 3 =$
8. $7x^2 - 18x + 8 =$
9. $2x^2 + 5x + 2 =$
10. $3x^2 + x - 2 =$
11. $2x^2 - x - 6 =$
12. $3x^2 + 2x - 5 =$
13. $4x^2 - x - 3 =$
14. $7x^2 + 19x - 6 =$
15. $3x^2 + 8x + 4 =$

F	$(4x + 1)(2x + 1)$
C	$(7x - 4)(x - 2)$
O	$(3x - 2)(x + 1)$
S	$(2x + 1)(x + 3)$
A	$(2x + 3)(x - 2)$
T	$(4x + 3)(x - 1)$
V	$(7x - 2)(x + 3)$
O	$(2x + 3)(x + 1)$
I	$(3x + 2)(x + 2)$
L	$(7x - 1)(2x - 1)$
S	$(3x + 5)(x - 1)$
E	$(2x + 1)(x + 2)$
W	$(5x - 1)(x - 3)$
K	$(7x - 1)(x - 1)$
D	$(5x + 1)(x + 1)$

$\overline{}_{7} \; \overline{}_{1} \; \overline{}_{10} \; \overline{}_{3} \; \overline{}_{12} \; \overline{}_{13} \; \overline{}_{1} \; \overline{}_{8} \; \overline{}_{5}$

$\overline{}_{4} \; \overline{}_{9} \; \overline{}_{2} \; \overline{}_{13} \; \overline{}_{15} \; \overline{}_{14} \; \overline{}_{11} \; \overline{}_{6}$