

Factoring Trinomials where $a \neq 1$

$$\star ax^2 + bx + c$$

① Headphones

② Bust the "b"

③ Grouping

Ex) $2x^2 + 17x + 21$

42

$(2x^2 + 14x) + (3x + 21)$

$2x(x+7) + 3(x+7)$

$(2x+3)(x+7)$

Mult. to 42	Add to 17
14, 3	17 ✓
2, 21	23 ✗