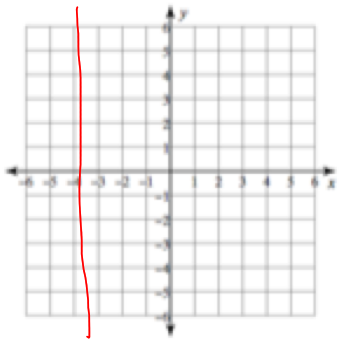
10.4 Factoring Trinomials

PRACTICE

Directions: Factor the trinomial.

1) $x^2 + 4x + 3$ ×3 +4 $(x+3)(x+1)$ 1	2) $b^2 - 17b + 72$ ×72 +-17 $1(b-8)(b-9)$ 1 $(b-8)(b-9)$	3) $2y^2 - 3y - 2$ ×-4 +-3 $\frac{(2y-4)(2y+1)}{2}$ $\frac{2(y-2)(2y+1)}{2}$ $(y-2)(2y+1)$
4) $8y^2 + 2y - 3$ ×-24 +2 $\frac{(8y+6)(8y-4)}{8}$ $\frac{2(4y+3)(2y-1)}{8}$ $(4y+3)(2y-1)$	5) $6s^2 - s - 5$ ×-30 +-1 $\frac{(6s-6)(6s+5)}{6}$ $\frac{6(s-1)(6s+5)}{6}$ $(s-1)(6s+5)$	6) $m^2 - 7m - 120$ ×-120 +-7 $\frac{(m-15)(m+8)}{1}$ $(m-15)(m+8)$
7) $2h^2 - 5h - 3$ ×-6 +-5 $\frac{(2h-6)(2h+1)}{2}$ $\frac{2(h-3)(2h+1)}{2}$ $(h-3)(2h+1)$	8) $c^2 - 144$ ×-144 +0 $\frac{1(c-12)(c+12)}{1}$ $(c-12)(c+12)$	9) $4n^2 + 16n + 15$ ×60 +16 $\frac{(4n+6)(4n+10)}{4}$ $\frac{2(2n+3)2(2n+5)}{4}$ $(2n+3)(2n+5)$

10) $p^2 + 20p + 64$	11) $x^2 + 3x - 70$	12) $4n^2 - 9$
$\times 64$, $+20$ $(p+16)(p+4)$	$\times -70$, $+3$ $(x-7)(x+10)$	$x = -36$, $+0$ $(4n-6)(4n+6)$ $2(2n-3)(2n+3)$ $(2n-3)(2n+3)$
SKILLZ REVIEW		
Graph.	List all pairs of numbers that multiply to the given number.	Which number pair contains the largest perfect square?
1) $x = -4$ 	2) 80 1. 80 2. 40 4. 20 5. 16 8. 10	3) Use 80 5 16 4.4

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