

Name: _____

Date: _____

Class/Home worksheet: Alg2H
Factoring Blitz (and Simplify)

<p>Factor:</p> $x^2 + 11x - 12 =$ <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>M</th> <th>A</th> <th>T</th> </tr> </thead> <tbody> <tr> <td>-12</td> <td>11</td> <td>12, -1</td> </tr> </tbody> </table> $x^2 + 12x - x - 12 = x(x+12) - 1(x+12)$ $= \boxed{(x-1)(x+12)}$	M	A	T	-12	11	12, -1	<p>Factor:</p> $6x^2 - 19x + 10 =$ <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>M</th> <th>A</th> <th>T</th> </tr> </thead> <tbody> <tr> <td>60</td> <td>-19</td> <td>-15, -4</td> </tr> </tbody> </table> $6x^2 - 15x - 4x + 10 =$ $= 3x(x-5) - 2(x-5) =$ $= \boxed{(3x-2)(x-5)}$	M	A	T	60	-19	-15, -4
M	A	T											
-12	11	12, -1											
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<p>Factor:</p> $9x^2 - 16 =$ $A = 3x$ $B = 4$ $\boxed{(3x-4)(3x+4)}$	<p>Factor:</p> $125 - x^3 =$ $A = 5 \quad A^3 - B^3$ $B = x$ $\boxed{(5-x)(25+5x+25)}$												
<p>Simplify:</p> $(3x + 5)^2 =$ $\boxed{9x^2 + 30x + 25}$	<p>Simplify:</p> $(3x - 4)^2 =$ $\boxed{9x^2 - 24x + 16}$												