MPM 2D
Mr. Kempe

Name: _____
Date: _____

# Quiz #2B – Factoring

[12 marks]

1. What type of factoring should you **always** attempt first? [1 mark]

   **Common**

2. Factor. [2 marks]

   a. $x^2-7x+12$

   M: 12
   A: -7
   N: -3, -4

   $=(x-3)(x-4)$

   b. $z^2+6z-16$

   M: -16
   A: 6
   N: 8, -2

   $=(z+8)(z-2)$

3. Factor [2 marks]

   *Difference of squares!*

   a. $w^2-16$

   $=(w-4)(w+4)$

   b. $4h^2-9$

   $=(2h-3)(2h+3)$

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4. Factor. [4 marks]

a. $4g^2-12g+9$

M: 36
A: -12
N: -6, -6

$=4g^2-6g-6g+9$
$=2g(2g-3)-3(2g-3)$
$=(2g-3)(2g-3)$
$=(2g-3)^2$

b. $6a^2-a-5$

M: -30
A: -1
N: -6, 5

$=6a^2-6a+5a-5$
$=6a(a-1)+5(a-1)$
$=(a-1)(6a+5)$

5. Factor $100j^2-200j-300$ [3 marks]

$=100(j^2-2j-3)$
$=100(j-3)(j+1)$

M: -3
A: -2
N: -3, 1