

Name: \_\_\_\_\_

- 1 The greatest common factor of  $4a^2b$  and  $6ab^3$  is  
080818a (1)  $2ab$  (3)  $12ab$   
(2)  $2ab^2$  (4)  $24a^3b^4$
- 2 If  $3x$  is one factor of  $3x^2 - 9x$ , what is the other factor?  
060421a (1)  $3x$  (3)  $x - 3$   
(2)  $x^2 - 6x$  (4)  $x + 3$
- 3 If one factor of  $56x^4y^3 - 42x^2y^6$  is  $14x^2y^3$ , what is the other factor?  
060318a (1)  $4x^2 - 3y^3$  (3)  $4x^2y - 3xy^3$   
(2)  $4x^2 - 3y^2$  (4)  $4x^2y - 3xy^2$
- 4 Which expression is a factor of  $x^2 + 2x - 15$ ?  
010004a (1)  $(x - 3)$  (3)  $(x + 15)$   
(2)  $(x + 3)$  (4)  $(x - 5)$
- 5 Which expression is a factor of  $n^2 + 3n - 54$ ?  
060206a (1)  $n + 6$  (3)  $n - 9$   
(2)  $n^2 + 9$  (4)  $n + 9$
- 6 What are the factors of  $x^2 - 5x + 6$ ?  
010814a (1)  $(x + 2)$  and  $(x + 3)$  (3)  $(x + 6)$  and  $(x - 1)$   
(2)  $(x - 2)$  and  $(x - 3)$  (4)  $(x - 6)$  and  $(x + 1)$
- 7 What are the factors of  $x^2 - 10x - 24$ ?  
010318a (1)  $(x - 4)(x + 6)$  (3)  $(x - 12)(x + 2)$   
(2)  $(x - 4)(x - 6)$  (4)  $(x + 12)(x - 2)$
- 8 Factored completely, the expression  $2y^2 + 12y - 54$  is equivalent to  
060623a (1)  $2(y + 9)(y - 3)$  (3)  $(y + 6)(2y - 9)$   
(2)  $2(y - 3)(y - 9)$  (4)  $(2y + 6)(y - 9)$
- 9 Factored completely, the expression  $2x^2 + 10x - 12$  is equivalent to  
080806ia (1)  $2(x - 6)(x + 1)$  (3)  $2(x + 2)(x + 3)$   
(2)  $2(x + 6)(x - 1)$  (4)  $2(x - 2)(x - 3)$
- 10 Factor completely:  $3x^2 + 15x - 42$   
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