

Algebra 1: 12.2 Homework  
Multiplying Polynomials

Name \_\_\_\_\_ Period \_\_\_\_\_

Determine the product of each polynomial using an area model (or multiplication table).

1.  $(x+1)(x+5)$

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2.  $(4r-4)(2r-3)$

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3.  $(6m+5)(2m-2)$

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4.  $(10t-1)(9t+8)$

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5.  $8g^3(6g^2+8g-7)$

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6.  $(b+2)(2b^2+5b+3)$

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Determine the product of each polynomial using an area model (multiplication table), FOIL, or the Distributive Property.

7.  $(7b+5)(b-4)$

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8.  $(2a-3)(6a+7)$

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9.  $3x^4(3x^2-8x+1)$

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10.  $(6y-2)(6y^2-8y-2)$

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