

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

### Multiply & Divide Polynomials (C-3) Practice Quiz

Write your answer on the line next to the corresponding question.

1. Simplify  $4(-x + 3) =$  \_\_\_\_\_

2. Simplify  $(3xy)(5z) =$  \_\_\_\_\_

3. Simplify  $\frac{14x^2yz}{-7xz} =$  \_\_\_\_\_

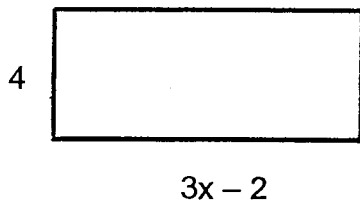
4. Simplify:  $\frac{5y^2 - 15y + 10}{5} =$  \_\_\_\_\_

5. Simplify:  $3x(-3y^2 + 2y - 5) =$  \_\_\_\_\_

6. Simplify  $3(2r - 2) - 2(-r - 1) =$  \_\_\_\_\_

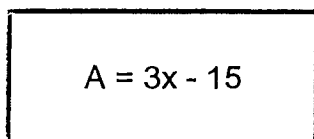
7. Simplify  $\frac{-4x(3xy - 5x + 2)}{2x} =$  \_\_\_\_\_

8. What is the area of the rectangle below?



9. What is the area of half the rectangle in #10? \_\_\_\_\_

10. What is the length of the rectangle below?  
IF the width = 3? \_\_\_\_\_



Name: Key, 2009

### Multiply & Divide Polynomials (C-3) Practice Quiz

Write your answer on the line next to the corresponding question.

1. Simplify  $4(-x + 3) =$   $-4x + 12$

2. Simplify  $(3xy)(5z) =$   $15xyz$

3. Simplify  $\frac{14x^2yz}{-7xz} =$   $-2xy$

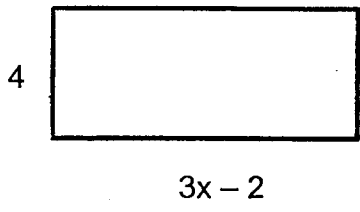
4. Simplify:  $\frac{5y^2 - 15y + 10}{5} =$   $y^2 - 3y + 2$

5. Simplify:  $3x(-3y^2 + 2y - 5) =$   $-9xy^2 + 6xy - 15x$

6. Simplify  $3(2r - 2) - 2(-r - 1) =$   $8r - 4$   
*(br - b) - (-2r - 2)*

7. Simplify  $\frac{-4x(3xy - 5x + 2)}{2x} =$   $-6xy + 10x - 4$   
 $\frac{-12x^2y + 20x^2 - 8x}{2x}$

8. What is the area of the rectangle below?



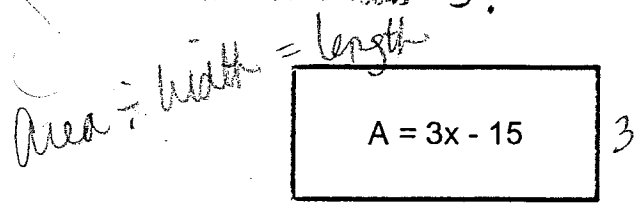
$4(3x - 2) =$   $12x - 8$

9. What is the area of half the rectangle in #10?

*divide Area by 2*  
 $\frac{12x - 8}{2} =$   $6x - 4$

10. What is the length of the rectangle below?

*IF the width = 3?*



$\frac{3x - 15}{3} =$   $x - 5$   
*using 3(x - 5) = 3x - 15*