

Math 9 – Unit 3: Solving Equations

Name: _____

Lesson #3: Solving with Brackets

Date: _____

Learning Goal: We are learning to solve equations that contain brackets.

The next layer to solving equations is to have brackets in the equations. With brackets, you first need to expand (using the Distributive Property), simplify, then use the skills from the last two lessons to solve. Here we go!!

a) $2(x - 3) = 2$

b) $3(y + 2) = -9$

c) $2(3p + 4) = 14$

d) $-24 = 4(h + 3)$

e) $3(m + 1) + 10 = 8 - 2m$

f) $8 - 3w = 4(x - 3) + 6$

$$g) 5(2x-3) = 2(x-2) + 5$$

$$h) 4(d+7) = -44 + 2(d+6)$$

$$i) 4(n-2) - (n+3) = n-1$$

$$j) 4(k-7) - 2(k+3) = -15k$$

$$k) 3(2x+1) - (x-2) = 2(x+4)$$

Success Criteria:

- I can use the distributive property to eliminate brackets, then solve the equation normally