## Algebra I

2-5

The Distributive Property

a(b+c)=ab+ac Distributive Property -

Why is the distributive property important? us

The distributive allows, to get rid of the parentheses when we cannot do what is inside them.

```
Simplify. (pg 67)
1) 8 (30+1)
                           9) 4(9.5) or 4(9+1)
240+8 or 8(31)
                            38.0
             248
13) 30 · 18 + 70 · 18
   18 (30+70)
     18(100)
       1800
```

For each expression, write an equivalent expression without paretheses. 25) 3(x+2)35) (2x + 3y)55(2×+3y) 3x+6 10x+154 Simplify. 43) 2a + b + 5a + 3b55) 2 + (x + 3) 52+ 5(x+3) 7a+46 2+5x+15 5x+17

Try on your own!

$$61) 9(a+b)+4(3a+2b)$$
 $2a+17b$ 
 $2a+$ 

