**DISTRIBUTED PROPERTY**

**Independent Practice**

Complete each of the 2 problems below. Show your thinking in the format we used in class.

•Use the Greatest Common Factor to show use of the Distributive Property with the equation 21 + 63.

• Use the GCF to show use of the Distributive Property with the equation 18 & 81.

**SOLUTIONS**

21 + 63

Factors of 21 = 1, 3, 7, 21

Factors of 63 = 1, 3, 7, 9, 63

GCF of 21 & 63 is 7

So, take the 7 out of the equation to distribute it over the other factors.

21 + 63 = 7 (3 + 9) *(because 7 x 3 = 21 and 7 x 9 = 63)*

 = (7 x 3) + (7 x 9)

 = 21 + 63

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18 + 81

Factors of 18 = 1, 2, 3, 6, 9, 18

Factors of 81 = 1, 3, 9, 27

GCF of 18 & 81 is 9

So, take the 9 out of the equation to distribute it over the other factors.

18 + 81 = 9 (2 + 9) *(because 9 x 2 = 18 and 9 x 9 = 81)*

 = (9 x 2) + (9 x 9)

 = 18 + 81