Assignment 4-1
Distributive Property

Intermediate 1

Unit 4: Expressions

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Use a model to simplify the following expressions.

1. $7(x+4)$

3. $3(5y+x)$

2. $2(-3-3x)$

4. $5(4x-3y)$

Simplify the following expressions. You may use a model if you wish

5. $-2(m-3)$	6. $3(2m+7)+4$
7. $-(n-6)$	8. $-\dfrac{1}{2}\left(\dfrac{1}{3}m-\dfrac{2}{5}\right)$
9. $(b-8)4$	10. $\dfrac{2}{5}(3m-6)$

11. $(3-x)3y$	12. $8-4x+2$

13. You and a fellow castaway are stranded on an island, playing dice for the last seat on the rescue boat. You've agreed on these rules:

- **You'll roll two dice**
- **If the greatest number is 1, 2, 3, or 4 then Player 1 wins**
- **If the greatest number is 5 or 6, then Player 2 wins**

a. **Give three possible outcomes that would have Player 1 win.**

b. **Give three possible outcomes that would have Player 2 win.**

c. **Which player would you rather be? Justify your answer using math concepts we've talked about this year.**