

Pre-Algebra
Distributive Property and Combining Line Terms

Name: _____

Class/Period: _____

Use the Distributive Property to SIMPLIFY the following expressions.

Vocabulary: In this case, simplify means to remove the parenthesis. Distribute the number that is outside the parenthesis to EVERY term that is inside.

Example: $-4(-5n - 6) = -4(-5n + -6) = 20n + 24$

1. $5(2x + 6)$

2. $7(3x - 10)$

3. $10(15x + 50)$

4. $-(4p - 6)$

5. $-2(7n - 2)$

6. $-4(-2d - 2)$

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Simplify the following by combining like terms. Use the distributive property to remove any parenthesis if necessary.

Example: $4x + 3 + 2(3x + 1) = 4x + 3 + 6x + 2 = 4x + 6x + 3 + 2 = 10x + 5$

(hint: 7, 8, and 9 are EASY because there is no subtraction!)

7. $10x + 5 + 3x$

8. $4n + 2 + 5n + 7$

9. $5b + 3(2b + 5) + 2$

(hint: the rest of these problems are tricky. You must change (change) the subtraction to addition FIRST, before you start combining like terms). BE CAREFUL! Look in your notes at the rules!

10. $3y + 2x - 7y + 5x$

11. $5x - 2 + 4(2x - 4)$

12. $3p - 4 - 4p - 10$

13. $-4(a + 3) - a$

14. $3(2n + 4) - 2(3n + 6)$

15. $2b - 6 + 3b - b$