Name: _____ Date: _____

Fresh Math

Equations With Parentheses - Medium

Solve each equation for the variable. Use the distributive property to remove parentheses, then combine like terms and isolate the variable.

1. $4(x - 1) = 32$
2. $4(x - 6) = -12$
3. $6(x - 7) = 0$
4. $6(x + 5) = 2(x + 17)$
5. $3(x + 1) = 2(x + 4)$
6. $6(x + 1) = 3(x + 9)$
7. $3(x - 4) = 6$
8. $6(x - 1) = 0$
9. $5(x - 3) = -5$
10. $2(x - 4) = -2$

Name: _____ Date: _____

Fresh Math

Equations With Parentheses - Medium

Solve each equation for the variable. Use the distributive property to remove parentheses, then combine like terms and isolate the variable.

11. $4(x + 2) = 2(x + 14)$

12. $4(x + 6) = 2(x + 16)$

13. $3(x + 3) = 2(x + 5)$

14. $5(x - 3) = 20$

15. $6(x + 6) = 2(x + 20)$

16. $2(x - 3) = 4$

17. $6(x - 6) = 24$

18. $6(x - 6) = 6$

19. $3(x + 1) = 2(x + 2)$

20. $3(x - 5) = 6$

Equations With Parentheses - Medium - Answer Key

1. $4(x - 1) = 32$
   $x = 9$

2. $4(x - 6) = -12$
   $x = 3$

3. $6(x - 7) = 0$
   $x = 7$

4. $6(x + 5) = 2(x + 17)$
   $x = 1$

5. $3(x + 1) = 2(x + 4)$
   $x = 5$

6. $6(x + 1) = 3(x + 9)$
   $x = 7$

7. $3(x - 4) = 6$
   $x = 6$

8. $6(x - 1) = 0$
   $x = 1$

9. $5(x - 3) = -5$
   $x = 2$

10. $2(x - 4) = -2$
    $x = 3$

Equations With Parentheses - Medium - Answer Key

11. $4(x + 2) = 2(x + 14)$
    $x = 10$

12. $4(x + 6) = 2(x + 16)$
    $x = 4$

13. $3(x + 3) = 2(x + 5)$
    $x = 1$

14. $5(x - 3) = 20$
    $x = 7$

15. $6(x + 6) = 2(x + 20)$
    $x = 1$

16. $2(x - 3) = 4$
    $x = 5$

17. $6(x - 6) = 24$
    $x = 10$

18. $6(x - 6) = 6$
    $x = 7$

19. $3(x + 1) = 2(x + 2)$
    $x = 1$

20. $3(x - 5) = 6$
    $x = 7$