

Solving Equations #1 (Simplifying First)

Name: \_\_\_\_\_

Show all steps. Box your answers.

1)  $7x + 4x = 33$

2)  $8k - k = 28$

3)  $4n + 17n = 42$

4)  $8y - 3y - 1 = 24$

5)  $-3k + 1 + 7k = 33$

6)  $-5 - 4r + 17r = 73$

7)  $6a + 3a + 5 = 68$

8)  $8z - 15 - 3z = -15$

9)  $11x + 2 + x = 14$

10)  $11k - 19k = 24$

11)  $-9w + 3 + w = 35$

12)  $-7 + 2k - 3k = 0$

13)  $9y - y = -48$

14)  $z - 5z = 20$

15)  $x + 3x = 36$

$$16) -4x - 10x = 28$$

$$17) -6r - 1 - 13r = 18$$

$$18) 12q - 18 - 15q = 6$$

$$19) -7x + 4x = 27$$

$$20) 5x - 8x + 1 = -29$$

Scrambled Answers

-9	-8	-7	-6	-5
-4	-3	-2	-1	0
1	2	3	4	5
6	7	8	9	10

Distributive Property

NAME \_\_\_\_\_  
PER \_\_\_\_\_ DATE \_\_\_\_\_

Show your work NEATLY, and **BOX** your answers.

1.  $5(x+2)$

2.  $2(y-7)$

3.  $(1+t)8$

4.  $(9-u)3$

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

6.  $(2n-4)5$

7.  $(3-4m)7$

8.  $5(1+3x)$

9.  $6(2x-7)$

10.  $-7(3-5n)$

11.  $5(2s+4)$

12.  $-3(k-4)+6k$

13.  $-3(6+5r)+2r$

14.  $8(2x+4)-4x$

15.  $2(y-4)+9y$

16.  $-5(8-4a)+9a$

17.  $7(2x-6)+9x$

18.  $4v+5(8-3v)$

19.  $7(5x-3)-2x$

20.  $3c-5(9-3c)+5c$

## Solving Equations #2 (Simplifying First)

Name: \_\_\_\_\_

*Show all steps. Box your answers.*

1.  $13x + 12 - 19x = -24$

2.  $25x + 13 - 33x = -11$

3.  $19x - 22 + 7x = 30$

4.  $35x + 58 + 12x = -130$

5.  $14x + 25 - 11x = 37$

6.  $23x + 18 - 12x = 62$

7.  $37x - 14 + 19x = 154$

8.  $31x - 22 + 11x = 188$

9.  $36x - 21 - 24x = -105$

10.  $41x - 33 - 25x = -145$

11.  $3(4x - 7) = 135$

12.  $8(2x - 4) = 96$

$$13. 10(5x-3) = 20$$

$$14. 9(7x-4) = 27$$

$$15. 7(2x-4) = 28$$

$$16. 9(5x-2) = 117$$

$$17. 4(7x+6) = 80$$

$$18. 6(3x+11) = 30$$

$$19. 4x - 5(3x+10) = 126$$

$$20. 5x - 4(2x+11) = 13$$

Scrambled Answers

4 -7 1 4 5

-16 2 4 8 6

3 1 2 -4 -7

3 -19 3 -2 13

Solving Equations #3 (Simplifying First)

Name \_\_\_\_\_

Show all steps. Box your answers.

1.  $3x + 2(5x - 3) = 7$

2.  $7x + 3(4x - 1) = -79$

3.  $3x + 4(3x - 5) = 25$

4.  $7x + 9(2x - 4) = 14$

5.  $8x + 3(2 - 3x) = 28$

6.  $14x + 5(4 - 2x) = 20$

7.  $18 + 4(3x - 7) = -70$

8.  $13 + 8(5x - 9) = 21$

9.  $-6(2x - 3) + 15 = 9$

10.  $-4(5x - 2) + 7 = -5$

11.  $15 + 4(-2x + 6) = -9$

12.  $-2(x - 7) + 6x = 34$

13.  $3(2x + 7) + 5(x - 2) = 0$

14.  $9(2x + 3) - 4(4x + 5) = -11$

Scrambled Answers (with some extras):				
2	3	-3	5	-22
-5	-9	2	6	-4
1	-6	1	0	2
3	0	-1	15	7

Foundations: Combining Like Terms &  
Distributive Property Review

Name:

BOX your answers!

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Review:

1)  $-11 - 11$

2)  $-3 + 7 - -2$

3)  $-5 \cdot 6$

4)  $\frac{48}{-6}$

5)  $15 \div -5 \cdot 3$

6)  $2 - 5 + 4$

7)  $3 - 5(3 - 6)$

8)  $3^2 + 2 \cdot 1$

Solve:

9)  $-4 = w - -3$

10)  $-4t = 24$

11)  $7t - 3 = 46$

12)  $2 - 5y = 22$

Scrambled answers for #1-12: -30 -7 1 -4 7 -22 -9 -6 18 6 -8 11

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Arithmetic Review:

13) 
$$\begin{array}{r} \square \quad \square \\ \times \quad 9 \\ \hline 2 \quad 5 \quad 2 \end{array}$$

14)  $12 \overline{)1476}$

15) 
$$\begin{array}{r} 1027 \\ +274 \\ \hline \end{array}$$

16) Round to the nearest dime: \$7.84

Answers for #13-16: 28 123 1301 \$7.80

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Combine Like Terms and Use the Distributive Property

17)  $8x - 5x - 3$

18)  $3x - 7 - 5x$

19)  $3x + y + 5x + 3y$

20)  $4x - 6x + 7$

21)  $3(2x + 4)$

22)  $-3(2x - 5)$

23)  $-1(x + 7) + 4x$

24)  $6(2x - 5) + 30$

Scrambled answers for #17-24:  $-6x + 15$   $-2x - 7$   $3x - 3$   $3x - 7$   $6x + 12$   $8x + 4y$   
 $-2x + 7$   $12x$

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SOLVE!

25)  $-2x + 9x = -28$

26)  $-3d - 8d + 2 = 13$

27)  $2h - 3 + 4h + 4 = 31$

28)  $-3(x + 2) = -27$

29)  $4 = 2(2x + 5) + 6$

30)  $3 - 4(x - 2) = 11$

31)  $2x + 3x + 4 = 15$

32)  $5(x - 2) + x = -2$

33)  $3 - 2x - 6 = -2$

Scrambled answers for #25-30: 0  $\frac{4}{3}$  -1 -3  $-\frac{1}{2}$  -4 5  $\frac{11}{5}$  7