

1. Complete this table:

Expression	Terms	Constants	Coefficients
$11 - 7yx^2 - 25$			
$k - g$			
$1 + 2m + 3n - 4$			

Simplify each expression:

2.  $3z + 2x + x$

3.  $-3 + 3x + 11 - 5x - 2k - k$

4.  $-4x - 5x + 12m - 2m + 6q - 10q$

5.  $\frac{1}{2}x + \frac{1}{2}x + \frac{1}{3} + \frac{1}{2}$

6.  $-5 + \frac{1}{2}x - \frac{1}{5}y - \frac{2}{10}y + \frac{3}{4}x - 7$

7.  $88.5m - 22.4y + 4.04m + 26.2$

Matching: Write the letter of the equivalent expression on the line.

8. \_\_\_\_\_  $3x - 5x$

a)  $-8a$

9. \_\_\_\_\_  $4a - 12a$

b)  $2x - 6$

10. \_\_\_\_\_  $3x + 5x$

c)  $-x + y$

11. \_\_\_\_\_  $16a + a$

d)  $9x - 4y$

12. \_\_\_\_\_  $2x - 2y + y$

e)  $-2x$

13. \_\_\_\_\_  $2x - 2 - 4$

f)  $2x - y$

14. \_\_\_\_\_  $x - y + 2x$

g)  $x + y$

15. \_\_\_\_\_  $-y + 2y - x$

h)  $3x - y$

16. \_\_\_\_\_  $5x + 4y - 3x - x + 3y - 6y$

i)  $17a$

17. \_\_\_\_\_  $4x + 3y + 5x - 7y$

j)  $8x$



Use the distributive property to simplify:

18.  $\frac{1}{3}(3x + 12)$

19.  $-\frac{2}{5}(4x - 7)$

20.  $0.25(4x - 8)$

21.  $-2.4(1.5x - 0.9)$

22.  $x(3 - 2y + x)$

23.  $-(-m - 9 - 21n - 3)$

Write each of these expressions in factored form:

24.  $4b + 28$

25.  $1.6x - 2.4$

26.  $\frac{2}{3}x + \frac{5}{3}$

27.  $\frac{2}{3}x - 4$

28.  $10x + x^2 + 5x$

29.  $4m + 9$

30. Simplify this expression:  $x - 7.8 - 2(3.4x - 3.7) + 6.1x - 5(2.1x - 1.5)$

No matter how many mistakes you make or how slow you progress, you're still way ahead of everyone who isn't trying. -Tony Robbins