Name			Date
Mr. Tallman			
	<u>Lesson #43 –</u>	Combining Like T	<u>erms</u>
If I have 2 pencils have?		pencils in the othe	r hand, how many pencils do I
If there are 8 appl there in all?		2 apples in another	basket, how many apples are
to make 9 banan-	gos? V	Why or why not?	er basket, can I combine them
	nly combine things tha		
Like Terms have t	the same variable and s	ame exponent, but	can have different coefficients.
<u>Directions:</u> Identi	fy the coefficient, base	and exponent for th	ne following terms.
	Coefficient	Base	Exponent
1) 5x ²			
2) -3y ⁶			
3) 10x			
4) -9			

5)

6) 25r⁴

<u>Directions:</u> Circle the like terms.

6)
$$-6x$$
, 7, $2x$, $9x^2$, $3x$

8) 19x,
$$7x^2$$
, 2y, x^2 , $3x^2$

10)
$$5x^3y$$
, $4x^3$, $7y$, $7xy$, $-2x^3y$

Simplify the following expressions by combining like terms.

11) 8y + 4y	12) 3x + 8y + 4x	$13) -7a^2 - 16 + 10a^2$
14) $3y^2 - 4y^2$	15) 7rs – 5rs	$16)8r^5y^2 - 4r^5y^2$

17) James simplified the expression $4x^3 - 3x^2$ and said it equals $1x^2$. Is he right or wrong? Explain.

Now You Try! Simplify the following expressions by combining like terms.

1) 18 - 13r + 5 + 7r	2) -2 + 11 + 15m + 13m	3) 4 - 17c + 8c
4) 6s + s	5) 14z + 10 - 6z - 12	6) b + 3b
		·
7) -10 + 8d + 15d – 14	8) 18x - 17x	9) 10p - 6 - 2p
7, 10 . 00 . 150 . 11	0) 10% 17%	7, 100 0 20
	2 2	2 2
10) 7z + 16 + 14z	11) $2x^2 - 4 + 7x^2$	12) -5xy ³ + 16 – 9xy ³