Name			Date	
Mr Tallman		•		

Lesson #50 - Combining Like Terms

If I have 2 pencils in have? fencils	and, how many pencils do I
If there are 8 apples in one basket and 12 apples in there in all?	n another basket, how many apples are
If there are 6 bananas in one basket and 3 mangos to make 9 banan-gos? Why or wh	in another basket, can I combine them by not? Score Ruit.

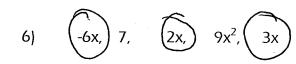
In Math, we can only combine things that are "Like Terms".

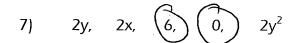
Like Terms have the same variable and same exponent, but can have different coefficients.

<u>Directions:</u> Identify the coefficient, base and exponent for the following terms.

	Coefficient	Base	Exponent
1) 5x ²	5	X	2
2) -3y ⁶	-3	4	6
3) 10x	10	X	(
4) -9 5)	EQ -9	,	
6) 25r ⁴	25	(4

Directions: Circle the like terms.





8)
$$19x, (7x^2) \quad 2y, (x^2) \quad (3x^2)$$

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

Simplify the following expressions by combining like terms.

11) 8y + 4y	12(3x) + 8y (4x)	$13)(-7a^2) - 16(+10a^2)$
124	74484	3a ² -16
$14) 3y^2 - 4y^2$	15) 7rs – 5rs	$16) 8r^5y^2 - 4r^5y^2$
-142	200	41542
		V

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

She is incorrect. $4x^2$ and $3x^2$ not like terms.

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

1) (8-13r+3+7r)	2)(-2)+11)+15m)+13m	3) 4(-170)+80
23-61	d+38W	4-90
4) 6s + s	5) (142)+ 10(-62)- 12)	6) b + 3b
1, 03 3		
TS	82-2	46
7(-10)+8d+15d-14	8) 18x - 17x	9) (0p - 6-2p)
-24+28d	ar lx	8p-6
5		
10)(7z)+ 16(+ 14);	$11)(2x^2)-4(+7x^2)$	12)(-5xy³)+ 16(-9xy³)
212 +16	axa-4	-14x43+16

 $Z^{(i)} = \hat{J}_{ij} \gamma_{ij}$