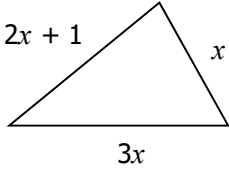
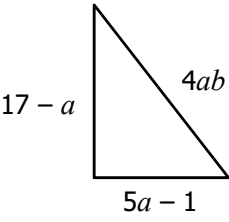


Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes/Examples	
Parts of an Expression	$7x + 3 - 5x + 8 + 4x - 1$ Variable Terms (Terms WITH a variable) Constant Terms (Terms WITHOUT a variable) Coefficients (Number NEXT TO a variable)	
Combining Like Terms	You can simplify an algebraic expression by combining like terms. This means to combine common variable terms and constant terms. Example: Simplify the expression below: $7x + 3 - 5x + 8 + 4x - 1 = \underline{\hspace{2cm}}$	
Examples	Directions: Simplify each expression.	
	1. $3x + 6x$	2. $9a - 10a$
	3. $7m - 5m - 6$	4. $9 - 6w + 5$
	5. $7p - 1 - 9p + 5$	6. $5h - 6 - 8 + 7h$
	7. $5x + 7y - x + 2y + 3x$	8. $26a + 2b - 4a + 10b$

with Exponents	Terms with the same exponents or combination of variables and exponents are considered like terms. When combined, be sure to NOT change their exponents!	
Examples	9. $5x^2 + 7x^2$	10. $-15n^5 + 4n^5$
	11. $8c^3 - 7c^3 + 16c^3$	12. $8k^2 - k - 5k + 7 - 2k^2$
	13. $-4a^2b + 7 + 10a^2b$	14. $x^2 + 2xy - 7xy + 4y^2$
	15. $a^2 + 7ab - 10ab + b^2$	16. $4x^2 - 7 + 2x - 3x^2 + 8x - 6$
Geometric Applications	Directions: Give the perimeter of each figure as a simplified expression.	
	17. 	18. 
	19. 	20. 