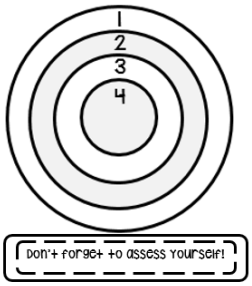


Name: _____ Hour: _____

Standard: A-APR.1 Understand that polynomials form a system of analogous to the integers, namely they are closed under the operations of addition, subtraction, and multiplication; add, subtract, and multiply polynomials

/4

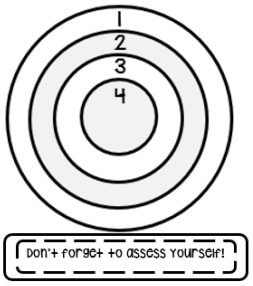
Directions: Simplify each polynomial. Write your answer in standard form.

1.) $(24x^5 + 12x) - (11x^2 + 9x^5)$

2.) $(w^2 + w - 4) + (7w^2 + 8 - 4w)$

3.) $2x^2(9 + x)$

4.) $(2m - 4)(3m^2 - 5)$



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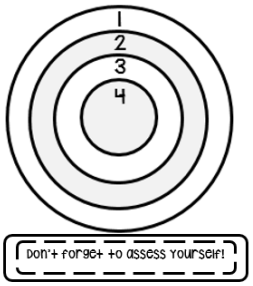


Name: _____ Hour: _____

Standard: A-SSE.1a Interpret parts of an expressions such as terms, factors, and coefficients.

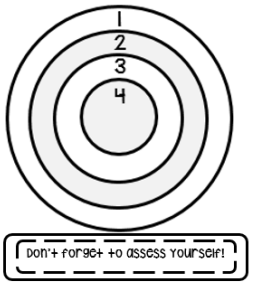
/4

Directions: Write each polynomial in standard form. Then name each polynomial based on its degree and number of terms.

1.) $8 + 7v - 11v$

2.) $6x^2 + 7 - 9x^4y^2$

3.) What is the degree of 4? Explain why.



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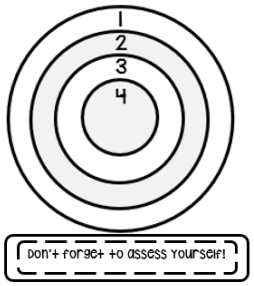


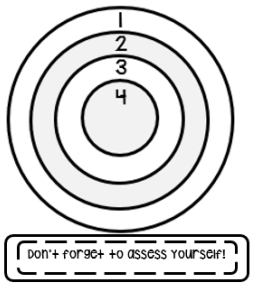
Name: _____ Hour: _____

Standard: A-SSE.1b Interpret complicated expressions by viewing one or more of their parts as a single entity.

/4

Directions: Some pieces of a generic rectangle are filled in at right. Complete all the other pieces (side lengths and areas), and then write out an equation that this rectangle represents, writing both as a sum and as a product.

	$3x$	
	$3x^2$	
3		-12



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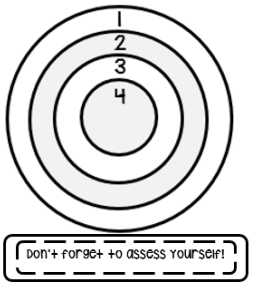


Name: _____ Hour: _____

Standard: A-SSE.2 Use the structure of an expression to identify ways to rewrite it.

/4

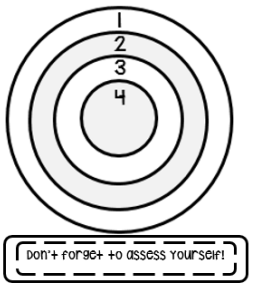
Directions: Factor

1.) $20n^4 - 10n^3 + 14n - 7$

2.) $4x^2 + 20$

3.) $q^2 + 2q + 1$

4.) $b^2 - 16$



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