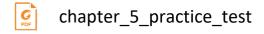
chapter_5_practice_test

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Name:	Date:	Period:
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Math 9 Chapter 5 Practice Test ~ Polynomials Teacher Assessment:

	Fully Meeting Expectations	Meeting Expectations	Not Yet Meeting Expectations
4		3 2	1
	Student has demonstrated a thorough understanding of the mathematical concepts and how they relate to procedures. All the work has been logically shown to provide accurate solutions with only minor errors in computations NOT procedures or processes when necessary. It is clear that students are proficient in the language used in these units.	Student has demonstrated a partial understanding of the mathematical concepts and how they relate to procedures or processes. The work appears to follow a logical sequence, but there are some errors. Some work is shown to demonstrate understanding of the procedures, but is not complete. Work may appear to be rushed or partially understood.	Student has not successfully demonstrated their understanding of the mathematical concepts and how they are related to procedures. The work shown is incomplete, and no logical process has been followed. Computation involves major errors, and or computation shows a weak understanding of concepts learned. An inappropriate method has been used to solve the guestion.

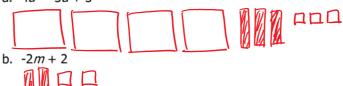
Question	Learning Outcome	Assessment							
1	B5: demonstrate an understanding of polynomials	4	3	2	1				
2	(limited to polynomials of degree less than	4	3	2	1	4	3	2	1
3	or equal to 2).	4	3	2	1				
4		4	3	2	1				
5	36: model, record, and explain the operations of addition and subtraction of polynomial expressions,	1	4 3 2 1						
6	concretely, pictorially, and symbolically (limited to polynomials of degree less than or equal to 2).	4	3	2	1	4	3	2	1
7	p-1,	4	3	2	1				
8		4	3	2	1				
9	B7: model, record, and explain the operations of		3	2	1				
10	multiplication and division of polynomial expressions (limited to polynomials of degree less than or equal	4	3	2	1		2	2	
11	to 2) by monomials, concretely, pictorially, and symbolically.			2	1] 4	3	2	1
12	Symbolically.	4	3	2	1				

Overall Letter Grade: A-

Student Assessment: Self-assess your work ethic for this unit in the following categories: (select G, S, or N

	Assignment Completion	Asking for Help	Working in class
G	I completed all of my	I always ask questions during the	I always work hard in class, both
	assignments and handed them in	lesson, or ask for extra help (in or	participating in the lesson and doing
	on time.	outside of class) when I need it.	my homework practice.
S	I completed all of my	I sometimes ask questions or ask	I sometimes participate in the lessons
	assignments but did not hand	for extra help when I need it.	and work on my homework practice in
	them in on time.		class.
N	I have not completed all of my	I usually don't ask questions in	I usually don't participate in the
1.4	assignments.	class or ask for extra help.	lessons, and don't work very hard in
			class at my homework practice.

- 1. Model the following polynomial expressions using algebra tiles.
 - a. $4a^2 3a + 3$







2. Write the expression for the given model of the polynomial. (Red = N, Yellow = p+)



b.



c.



3. For the following polynomials identify the: coefficients, constant term, variables, degree, number of terms, and type of polynomial.

Polynomial	Coefficients	Constant Term	Variables	Degree	Number of Terms	Type of Polynomial
$-2h^2 + 3 - 4h$	-2, -4	3	h	2	3	Trinomial
-7x ²	- 7	NA	X	2	1	Monomal
5 + W	1	5	W		2	Binomial

- 4. Identify the equivalent polynomials in the list below. Show all work to justify your answer.
 - a) 1 + 5x

b)
$$6 - 2x + x^2 - 1 - x + x^2 = 2x^2 - 3x + 5$$

b)
$$6 = 2x + x^2 - 1 = x + x^2 = 2x^2 - 3x + 5$$

c) $4x^2 = 7x + 1 = 7x^2 + 2x + 3 = -3x^2 - 5x + 4$
d) $4 = 5x - 3x^2 = -3x^2 - 5x + 4$

d)
$$4 - 5x - 3x^2 = -3x^2 - 5x + 4$$

e)
$$2x^2 - 3x + 5$$

f)
$$3x + 2x^2 + 1 - 2x^2 + 2x = 5 \times +$$

$$C=D$$
 $A=F$

a.
$$(4m^2 + 4m - 5) + (2m^2 - 2m + 1)$$

b.
$$(3x + 2) - (-2x + 3)$$

$$=6m^2+2m-4$$

$$= 3X+2+2X-3$$

$$=$$
 $SX-1$

a.
$$(6-7a+a^2)+(-7a^2+4a+11)$$

$$= -6a^2 - 3a + 17$$

a.
$$(1-3r+r^2)-(4r+5-3r^2)$$

$$=4r^{2}-7r-4$$

7. A student subtracted
$$(2x^2 + 5x + 10) - (x^2 - 3)$$
 as shown below. Identify the error(s) in the given simplification, and write the correct answer.

$$(2x^{2} + 5x + 10) - (x^{2} - 3)$$

$$= 2x^{2} + 5x + 10 - x^{2} + 3$$

$$= x^{2} + 8x + 10$$

$$(2x^{2}+5X+10)-(x^{2}-3)$$

$$= 2x^{2}+5X+10-x^{2}+3$$

$$= x^{2}+5X+13$$

8. One polynomial is subtracted from another. The difference is
$$-4x^2 + 2x - 5$$
. Write **two** subtraction statements that have this difference.

$$(x^{2}+5X-3)-(5x^{2}+3X+2)$$

$$=x^{2}+5X-3-5x^{2}-3X-2$$

$$= -4x^{2} + 2x - 5$$



a.
$$\frac{5x^2 - 10}{5}$$

$$=\frac{5x^2-10}{5}$$

$$=\chi^2-2$$

b.
$$-2(p^2 - 2p + 3)$$

$$=-2p^{2}+4P-6$$

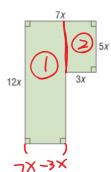
a.
$$(-2d + 9)(-3d)$$

$$=6d^2-27d$$

d.
$$\frac{40y^2 - 16y}{9x}$$

$$=\frac{404^{\circ}}{89}-\frac{69}{89}=59-2$$

11. Determine a polynomial for the area of this shape. Justify your answer.



- UX.

$$()$$
 $(4x)(12x) = 48x^2$

12. Which pairs of expressions are equivalent? Show your work to show why or why not the expressions are equivalent.

a.
$$4j^2 + 2$$
 and $2(2j + 4)$

C.
$$\frac{-36x^2}{-9x}$$
 and 4x

$$2(2j+4) = 4j+8$$

$$-5(-5x-1) = 25x+5$$

$$\frac{-36\chi^2}{-9\chi} = 4\chi$$