

*Hello Everyone!*

What's up? What's new? How is life? I ACTUALLY WANT TO KNOW! These are not empty questions... I am bored out of my mind over here without you to entertain me!

[hburns@sunrisesd.ca](mailto:hburns@sunrisesd.ca) or on Microsoft Teams ... say HEY! Send me funny memes or stories about your self-isolation life! Draw me pictures!

If you have internet at home and have not yet connected to Microsoft Teams, **please do!** This has been a great way for me to answer questions and communicate with all of you.

This week I have made some major ground on one of my self-isolation goals...becoming familiar with TikTok so I know **what in the world** you are all talking about.

I have even learnt the "Oh NaNa Challenge" dance. **NOT A LIE.** I am VERY "pro" at this. To be honest, that dance was something that was popular among teenagers in the early 2000s too.

I want to give you all a huge THUMBS UP for coming to pick-up your packages and hand in some assignments to the hand-in bin. GREAT WORK 😊

Please continue to stay healthy and happy and as nerdy as possible.

*Ms. Burns*

# 9 Math

*Wednesday, March 25<sup>th</sup> - Friday, March 27<sup>th</sup>*

- Finish all Assignments
- Hand in all assignments to Hand-In bin (or photos sent to me online)
- Finish U3 Review Questions (textbook)
- Hand in Review Questions to Hand-In bin (or photos sent to me online)
- Do U3 Test
- Hand in U3 Test to Hand-In bin (or photos sent to me online)

*Relax over Spring Break!*

*Get some fresh air while staying away from humans.*

*Monday, April 6<sup>th</sup> is your next pick up - we will be starting Unit 4! 😊*

# U3 TEST

## Polynomials

**Name:** \_\_\_\_\_

- Take your time
- Show all your work for all questions
- When you are finished, re-read and review your answers to make sure you haven't made any mistakes
- YOU GOT THIS!

<b>FINAL MARK</b>	<u>55</u>	%
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Circle the best answer for each question...

1. A polynomial with three terms is called a ...

MONOMIAL

TRIONOMIAL

BINOMIAL

TRINOMIAL

2. A letter in math is called a ...

CONSTANT

EXPONENT

VARIABLE

MONOMIAL

3. A polynomial is in standard form when...

ALL LIKE TERMS ARE COMBINED

IT IS ORDER BY INCREASING DEGREE

IT IS ORDERED BY DECREASING EXPONENTS

IT HAS NO CONSTANTS

4. Which of the following is written in standard form?

$$s^5 + s^7 - 8$$

$$-8y^2 + 9y - 11$$

$$f^4 - 10f^7 - f$$

$$7 + m^5$$

5. An equivalent polynomial is ...

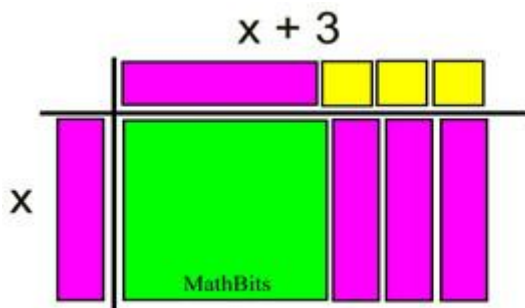
A POLYNOMIAL WITH NO CONSTANTS

A POLYNOMIAL IN STANDARD FORM

A POLYNOMIAL WITH THE SAME TERMS IN A DIFFERENT ORDER

A POLYNOMIAL WITH SAME TERMS BUT DIFFERENT VARIABLES

6. Which equation represents the following diagram?



$$(x + 3)(x) = x + 3x$$

$$x(x + 3) = x^2 + 3x$$

$$(x + 3) + (x) = x^2 + 3x$$

7. Fill the following table:

	VARIABLE	CONSTANT	DEGREE	POLYNOMIAL CLASSIFICATION
$2x^3 - 7$				
	a	-1	Quadratic	trinomial
$b - 5b^2 + b^4 - 2$				
$6h + 9$				
	none	15	constant	

[15 PTs]

8. For each polynomial, write an equivalent polynomial. (2 PTs – 1 each)

a)  $5a - b$

b)  $7q^2 - 2q - 1$

9. Add or subtract. (8 PTs)

*\*\*\*Pick one of the following to demonstrate with Alge-tiles. Either draw the tiles or raise your hand to show Ms. Burns your tiles!\*\*\**

a)  $(3x + 6) - (x - 2)$

b)  $(3y + 4y^2 + 9) + (-3y^2 + 4y)$

c)  $(-5a^2 - a + 9) + (-2a^2 - a - 4)$

d)  $(-5y^2 - y + 9) - (-2y^2 - y - 4)$

4. Multiply or divide. (8 PTs)

a)  $-2(-5r - 3)$

b)  $(12p^2 - 18p + 24) \div (-6)$

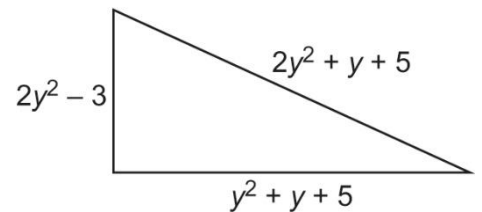
c)  $(1 + 3f - 4f^2)(-6)$

d)  $(8y^2 - 6y + 2) \div (-2)$

5. Answer the following using the diagram provided

a) Write an expression for the perimeter of this triangle. (1 PT)

b) Simplify the polynomial (combine like terms). (1 PT)



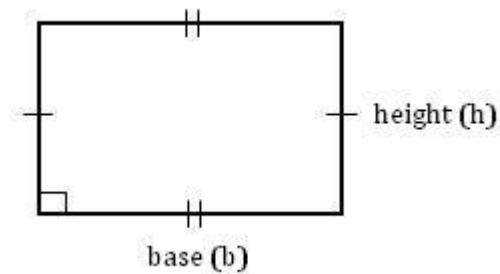
c) Determine the perimeter if  $y = 3$  cm. (2 PTs)

6. Here is a student's solution for a question:

$$\begin{aligned} &3x(2x + 1) \\ &= 6x + 3x \\ &= 9x \end{aligned}$$

Identify the errors in the solution, then give the correct solution. (3 PTs)

7. The perimeter of a rectangle is  $8s^2 + 12s$ . If the base of the rectangle is  $4s$ , what is the height? Explain your strategy. (3 PTs)



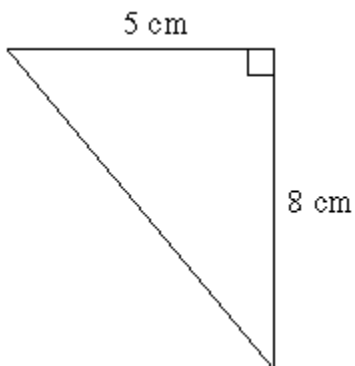
8. Solve the following problem, with the help of BEDMAS: [2 PTs]

$$[(0.5 + 0.5) + 2] \div (6 - 2^2 - (-1)) + (-3)$$

9. Solve (express your answer as a fraction): [ 2 PTs]

$$\frac{\left(\frac{1}{2}\right)^3 * \left(\frac{1}{2}\right)^7}{\left(\frac{1}{2}\right)^2}$$

10. Find the length of the hypotenuse: [2 PTs]





# REFLECTION

Give yourself a checkmark for each concept you UNDERSTAND.

I can create and recognize polynomials with Alge-Tiles and drawings.	
I can identify the variables, exponent, number of terms, and coefficients, including the constant term, of a simplified polynomial expression	
I can match equivalent polynomial expressions in simplified form	
I can add polynomials.	
I can subtract polynomials.	
I can identify the error(s) in a simplification of a polynomial expression.	
I can multiply polynomials.	
I can divide polynomials.	

How do you feel about your math skills for this unit?



How prepared are you for this test? (circle a number)

1 = NOT PREPARED AT ALL OMGGGGGGGGGGGG

10 = TOTALLY PREPARED, I'M A CHAMP!

1   2   3   4   5   6   7   8   9   10

How many hours / minutes / seconds / milliseconds have you spent on math outside of the classroom to prepare for this test?

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What is your goal for the new unit?

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