News	Devil and
Name:	Period:

Math 9: Polynomials Quiz #1

Full credit will only be awarded for all work shown in a neat and organized manner.

- 1. For the polynomial $z 3z^2 + 4xy + 7$
 - How many terms are in the polynomial?

•. What are the variables in the polynomial?

x, y, Z

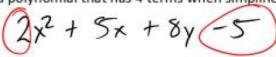
What are the constants in the polynomial?

. 2.

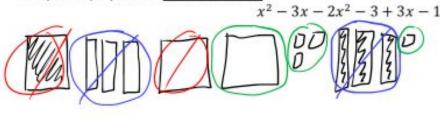
What are the coefficients in the polynomial?

1, -3,4

2. Write a polynomial that has 4 terms when simplified with a constant of -5 and a coefficient of 2



 <u>Draw</u> the polynomial below using algebra tiles. <u>Simplify</u> the polynomial <u>using your drawing</u>. Write the simplified polynomial <u>using variables</u>.



4. By drawing algebra tiles, explain why $3x^2 - x$ does not simplify to $2x^2$



- 5. Add and subtract the following polynomials and simplify. (Show your work!)

8x +2

 $-4y^2 - 8y + 6$

c) (2x+8)-(4x-2)



-7×+10

d) $(-3t^3-4t+1)-(-6t^2-5t+2)$



-313+6+2+t-1

e) (3a+1)+(4b-3)-(2a-5)



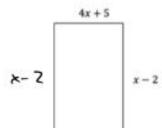
a+46+3

f) $(-5x^2 + 4xy) - (y - 3x^2 - 2xy) - (6x + 7y)$

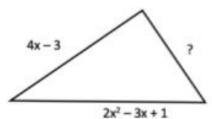


-2x2+6xy-8y-6x

6. Find the perimeter of the rectangle.



The perimeter of the triangle is 7x + 1. Find the missing side length.



3+863 ?=7x+1-(4x-3)-(2x2-3x+1)

? = 70+1 443-2×2+30-1

6x +3-2x22