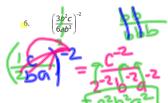


### Quiz & completed HW 4.6 Due Friday

#### 



$$5. \qquad \frac{x^9y}{(x^2y^9)^2}$$



- A rectangular parking lot has an area of 10a³b6
  square yards. If the length of the park is 2a³,
  what is the width of the park?
- 8. Which expression best represents the simplification of  $(3m^{-2}n^4)(-4m^6n^{-7})$ ?

$$F - \frac{12m^4}{n^3}$$

$$\mathbf{G} \quad -\frac{1}{12m^4n^3}$$

$$H - \frac{m^4 n^3}{12}$$

$$J - \frac{12n^3}{m^4}$$

- 9. Which expression is equivalent to  $(-5abc^4)(-3a^3c^2)(-4a^2b^4c^3)$ ?
  - A. -12a<sup>6</sup>b<sup>5</sup>c<sup>9</sup>
  - B. -12a<sup>6</sup>b<sup>4</sup>c<sup>24</sup>
  - C.  $-60a^6b^5c^9$
  - D.  $-60a^9b^9c^9$

10. The volume of a rectangular prism is  $125x^3$  cubic units, and the area of its base is  $25x^2y^2$  square units. What is the height of the prism in units if x > 0 and y > 0?



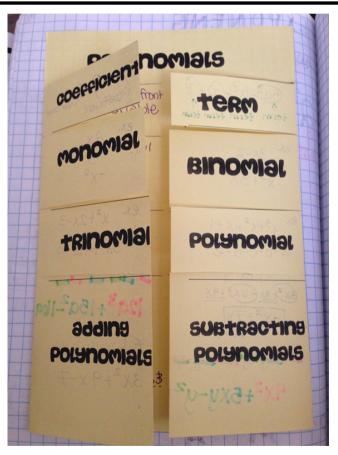




## Foldable page p. 90

Essential How do I classify polynomials?

Questions How do I add & subtract two polynomials



Fold sides into middle Cut along solid lines.

\*\*Be careful of problems inside bottom 2 flaps!!

Mals
term
BINOMIal
Polynomal
SUBTRACTIN9
Polynomals

	Polyn	omials 🔏	art
2X Library	The number in front of the variable	A single number or variable OR #'s and variables multiplied together  Separated by a 4 or	5a3-a3+a+7 1 1 1 turn tun tun tem
8 <u>8</u> 2 x 8 x y <sup>2</sup> a b c	Expression with ONE term	Expression with terms.	ex x2+3x ab-cd
ek. x <sup>2</sup> +2x-3 a+b+c	Expression with THREE terms.	Expression with Four to move terms.	ex. 3x <sup>3</sup> + x <sup>5</sup> -x <sup>4</sup> -8 a-b-c-d-e-f
$\frac{(5a^3+3a^2-6a+22a^2)+(7a^3-10a)}{120^3+150^2-100}$	combine like terms Chrust have	negative to 2nd polymon 2) combine	$(5x^2 + 3x) - (6x^2 - 4x)$
$\frac{(3x^{2}+2x-1)+(7x-6)}{3x^{2}+9x-7}$	the same sponsort and yadd coeff clearly	like terms	$(6x^{2} + 8xy - 3y^{2}) - (2x^{2} + 3xy - 2y^{2})$ $(3y^{2} - 2x^{2} - 3y + 1)$ $(4x^{2} + 6xy - 3y^{2})$
	•		

## Activity - Polynomial Die!

You and your shoulder partner will receive a die with <u>monomials</u> on each side. For each row on the table, you will roll your die 4 times, recording each roll. Then you will combine any like terms and classify your polynomial as a monomial, binomial, or trinomial.

					·	<u>,                                      </u>
	1st ROLL	2 <sup>no</sup> ROLL	3 <sup>ro</sup> ROLL	4 <sup>™</sup> ROLL	COMBINE LIKE TERMS	name
1						
2						
3						
4						
5						
6						

You will then perform the stated operation with the polynomials you found in your table. Use the polynomial in the "combine like terms" column. Don't forget to distribute the negative for subtraction!!

Due by the end of the period!



### Tonight's HW: 1 page!

Algebra I - Unit 7: Topic 2 - Adding and Subtracting Polynomials

Practice - Adding and Subtracting Polynomials

pp 476 – 489

\_\_\_\_

\_\_ Date \_\_\_

Period

Classify each polynomial according to the number of terms.

1. 
$$5n^3 + 4n$$

2. 
$$4y^6 - 5y^3 + 2y - 9$$

3. 
$$3b^7 + 9b^5 + 2b^7 - 5$$

4. 
$$\frac{1}{4}wx^5y^2z^2$$

Simplify the following polynomials.

5. 
$$3x^3 - 4 - x^3 + 1$$

6. 
$$4.4x^2 + 3.1x - 6.3x - 2x^2$$

7. 
$$(2t^2 - 8t) + (8t^2 + 9t)$$

8. 
$$(-7x^2 - 2x + 3) + (4x^2 - 9x)$$

9. 
$$(3s^4 + 4s) - (-10s^4 + 6s)$$

10. 
$$(3x^2 - x) - (x^2 + 3x - x)$$

11. 
$$(x^2-3x+7)+(2x-5+3x^2)-(x^2-6x)$$
 12.  $(3x^2-2x+8)-(x^2-4)+(-4x^2-5x-2)$ 

12. The recreation field at Huffines Park is shaped like a rectangle with a length of 15x yards and a width of 10x - 3 yards. Write a polynomial in simplest form for the perimeter of the field. Then calculate the perimeter if x = 2.

13. Darnell and Stephanie have competing vending machine businesses. Darnell's profit can be modeled with the polynomial  $c^2 + 8c - 100$ . Were c is the number of items sold. Stephanie's profit can be modeled with the polynomial  $2c^2 - 7c - 200$ . Write a polynomial in simplest form to show how much money they can expect to earn if they decided to combine their businesses.



Remember: DON'T CHANGE EXPONENTS.

Only combine coefficients!!

DISTRIBUTE the negative to the 2nd set of parenthesis.

### Answers:

- 1. Binomial
- 2. Polynomial
- Trinomial
- 4. Monomial
- 5.  $2x^3 3$
- 6.  $2.4x^2 3.2x$
- 7.  $10t^2 + t$
- 8.  $-3x^2 11x + 3$
- 9.  $13s^4 2s$
- 10.  $2x^2 3x$
- 11.  $3x^2 7x + 2$
- 12.  $-2x^2 7x + 10$
- 13. P = 50x 6; 94 yards
- 14.  $3c^2 + c 300$

# Quiz Averages

2nd - 59

3rd - 60

4th - 50

5th - 64

7th - 60

Extra Credit Exponents
Puzzle (for +50 points on quiz) is due Thursday.

Thursday's quiz also covers exponents.

Tutoring: Tues PM Wed AM/PM

Not available Tues or Thurs AM