				4.3		
	Jon -	Algebra Agenda				
Z				Stamp		
nday	1/18/2016	Objective:	No School			
Mo		Assignment:	MLK Day			
Tuesday	1/19/2016	Objective:	Division Properties of Exponents			
		Assignment:	Practice #1-10			
Wednesday	1/20/2016	Objective:	Rational Exponents			
		Assignment:	Practice #1-8			
Thursday	1/21/2016	Objective:	Simplifying Monomials			
		Assignment:	Practice #1-10			
ay	1/22/2016	Objective:	Quiz			
Frid		Assignment:	HW 4.3 Due!			

Final Weekly HW Grade: _____

Be wo k	Name: Period:
Monday	thursday
Tuesday	Friday
Wednesday	CHALLENGE

Practice – Division Properties of Exponents

Na	me			Date		Period
Sir	nplify the expressions below:					
1.	$\frac{-3x^7}{6x^3}$	2.	$\frac{15x^{-3}}{x}$		3.	$\frac{8x^{10}y^{7}}{2x^{6}y^{6}}$
4.	$\left(\frac{\boldsymbol{X}^{-5}}{\boldsymbol{X}^{-2}}\right)^{5}$	5.	$\frac{x^9y}{(x^2y^9)}$	2	6.	$\left(\frac{3b^2c}{6ab^3}\right)^{-2}$

- 7. A rectangular parking lot has an area of $10a^3b^6$ square yards. If the length of the park is $2a^3$, what is the width of the park?
- 8. Marlena was asked to find an expression that is not equivalent to 2¹². Which of the following is not equivalent to the given expression?
 - $F \left(2^2\right)^6$
 - $G(2^8)^4$
 - $H(2^{6})(2^{6})$
 - $J (2^3)(2^9)$

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

Algebra 1 – Unit 6: Rational Exponents and Radical Expressions Practice Rational Exponents and Radical Expressions

1. What are two ways to write the square root of *x*?

2. Which expression is the equivalent to $(xyz)^{\frac{1}{2}}$?

A
$$\sqrt{xyz}$$

B $x^2y^2z^2$
C $xyz^{\frac{1}{2}}$
D $\frac{1}{x^2y^2z^2}$

3. What is $\sqrt{36xy}$ written as a fractional exponent?

Simplify each expression.

4.
$$\left(5a^{\frac{-1}{2}}b^{\frac{-3}{2}}\right)^2 = 5. \sqrt{49x^5y^6z^{11}}$$

- 6. $(a^4bc)(a^9b^3c^{21})^{\frac{1}{3}}$
- 7. Which expression is greater $(-4)^{\frac{2}{3}}$ or $(-4)^{3}$? Explain your reasoning.

8. There is an error in the student work shown below. What is the error? Explain how to solve the problem.

$$(12a^{3}b^{4}c^{7})^{\frac{1}{2}} = 12^{\frac{1}{2}}a^{\frac{3}{2}}b^{\frac{4}{2}}c^{\frac{7}{2}} = 2ac^{3}\sqrt{3abc}$$

Practice Simplifying Polynomials

Name _

WHAT DO YOU CALL A FAKE NOODLE?

Write each expression in simplest form. Find the letter next to your answer in the column at the right. Write the letter of this answer in the box that matches that problem number. If the answer has a , shade in the box instead of writing a letter in it.



1	2	3	4	5	6	7	8	9	10