

LESSON PLAN

Lesson #: 7

Unit#: 0

Warmup: Kindly Complete this [FORM](#)

Attendance: Your attention is appreciated!!!

News: [See JHS Home Page](#)

Applications: When am I ever going to use this stuff?

[Ford Mechanic Training Program](#)

[Hendrick Center for Automotive Excellence](#)

Goals: Complete Both Equations worksheets
Review Rules for Exponents (& why they work)
Does Math Solve Another Problem?

Exponent Rules/Laws



Product Rule	$a^m \times a^n = a^{m+n}$
Quotient Rule	$a^m \div a^n = a^{m-n}$
Power of a Power Rule	$(a^m)^n = a^{mn}$
Power of a Product Rule	$(ab)^m = a^m b^m$
Power of a Quotient Rule	$\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m}$
Zero Exponent Rule	$a^0 = 1$
Negative Exponent Rule	$a^{-m} = \frac{1}{a^m}$
Fractional Exponent Rule	$a^{\frac{m}{n}} = \sqrt[n]{a^m}$

Classwork: Exponent Worksheet (Do Prime-Numbered)

Problem Solver: The Boston Marathon started in 1897
(I missed that one).
The record time of 2 hrs and 3 mins
was set in 2011 by Geoffrey Mutai

Boston Marathon

Your instructor ran in 1978 with a time of 4 hours and 13 minutes and in 1983 with an improved time of 3 hours and 46 minutes.

1. Calculate your instructor's rate of improvement (1 point)
2. With the results of your calculation above, determine what year your instructor would be breaking the record. (1 points)
3. Comment on the problem description and details.
 1. Do you see any issues with the problem? (1 point)
 2. What do you think is the purpose of this problem? (1 point)

Questions: Your Turn!!!

Bell: Have a nice day!!!