EOC Countdown Day 1

Check your pockets...

**Period 1**
- #1-17
- #18-29
- #30-49
- #50-60
- #61-71

**Period 3**
- #1-17
- #18-29
- #50-60
- #61-71

1st, go to my webpage and click "Alg1 Worksheets and PT (practice tests)"

2nd, click on EOC Questions

**Warm-up Answers**

1st, go to my webpage and click "Helpful Resources"

2nd, click on EOC (End of Course Assessment) for Algebra 1 and open the pdf
EOC Countdown Day 1

The four main categories you will be tested on:

Numbers and Operations:  6-8 questions
Function Characteristics:  11-13 questions
Linear Functions and Inequalities:  11-13 questions
Data Analysis:  6-8 questions

EOC Numbers & Operations

Numbers & Operations  6-8 questions

Compare & Order Real Numbers  Questions #1-12, 86-88 of your handouts
Evaluate expressions with variables
Exponents, roots, use properes to evaluate
Evaluate Exponential Functions
Arithmic & Geometric Sequences
Solving equations with several variables: ex. (A = prt)
Now you try...

1) If \( a = 3 \), \( b = -2 \), and \( c = 1 \), evaluate:
   
   a. \( \frac{a}{b} + \frac{c}{(c - a)} \)  
   b. \( \sqrt{a^2 + b^2} \)

2) Simplify
   
   a. \( \frac{x^2 y^5}{x z^{-3}} \)  
   b. \( \sqrt{20} \)

3) Write a recursive formula for the following sequences:
   
   a. 3, 6, 12, 24, ...
   b. 3, 7, 11, 15, ...

4) Find \( a_3 \) and \( a_4 \) of the following sequences
   
   a. \( a_n = 5n + 2 \)
   b. \( a_1 = 2, \ a_n = 7a_{n-1} \)

5) Solve for \( a \) in
   
   a. \( 3a + 2 = 1 \)
   b. \( ab - c = d \)
   c. \( abc = d \)
   d. \( a - b + c = d \)

EOC Function Characteristics

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<th>11-13 questions</th>
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<td>Relations and Functions</td>
<td>Questions #13-36 of your handouts</td>
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<td>Domain, range, finding roots</td>
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<td>Evaluate ( f(x) ) at ( a ), solving ( f(x) )</td>
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Now you try...

Use the following five functions for the questions below:

\[ f(x) = -x^2 + 4 \quad g(x) = 3x - 8 \quad h(x) = |x - 6| \]

\[ j(x) = 3(2)^x \quad k(x) = \sqrt{x + 5} \]

1) Evaluate each function for \( x = 4 \)
2) Graph each function
3) Identify the domain and range
   4) Find \( x \) if \( f(x) = -5 \).
   5) Find \( x \) if \( h(x) = 10 \)
   6) Find \( x \) if \( g(x) = -8 \)
7) A plant grows 1 inch per day. Write an equation. What is the independent variable? What is the dependent variable? What domain makes sense? What range makes sense?

EOC Linear Functions and Inequalities

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Questions #37-73 of your handouts
Now you try…

1) Solve the following equations:
   a. \(5(x + 3) + 2x = 4 + 7x\)
   b. \(20 = |3x - 6|\)
   c. \(3x^2 - 5x = 2\)

2) Solve the following inequalities:
   a. \(|3x - 6| + 4 \geq 8\)
   b. \(8 \leq x - 3 \leq 12\)

EOC Data Analysis

Data Analysis  6-8 questions

Summary Stascs
Valid Inferences
Univariate Data
Linear Transformaons
Effect on Center & Spread
Fit an equaon to a line
Best fit lines
Predicng from data
Correlaon of data in Scaerplots

Questions #74-85 of your handouts
Now you try...

1) Find the mean, median, mode, standard deviation, quartiles, and range of the following data set:
   3, 5, 6, 6, 6, 7, 8, 8, 8, 9, 11, 12, 15, 16, 16, 17, 17, 19, 20

2) Draw a box-and-whisker plot and a histogram of the data above.

3) How would it affect the mean if I added 5 to each term? Multiplied each term by 5? What about the spread?

Your Homework:

Do the remaining EOC packets...

Period 1
#72-88

Period 3
#30-49
#72-88

Are you missing any packets? Go online and copy off missing problems. You will be showing all packets to the Mr. Nik Tsolomitis tomorrow.

1st, go to my webpage and click "Alg1 Worksheets and PT (practice tests)"

2nd, click on EOC Questions