

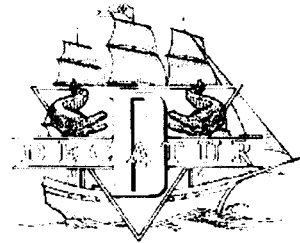
# Mathematics Portfolio

Name:

Date: November 7, 2005

Subject: Math Matters 5/6

**GLE:** Apply procedures to solve equations  
Analyze a pattern or graph involving repeated  
addition to write an inequality.



My level is...

Beginning

Approaching

Meeting

Exceeding

...because

I studied for the test and was well prepared by the teacher. The  
homework that we had worked on was reflected on the test.

## Reflections

Goals for improvement:

Next time I plan to get 100%. I plan to study harder and go back to change  
my errors and check my work before turning it in.

What went well while I worked on this GLE:

I made a great improvement on the second test. It was absolutely incredible  
considering that on the first test I got a 67%

Ways in which this learning goal will help me in life:

I believe that practice makes perfect. It will absolutely help me not only in  
my math classes but with problem solving over all.

Solve each equation, show your work.

1.)  $(17) \frac{d}{17} = -5 (17)$   
 $d = -85$

2.)  $-15 = t - 55$   
 $+55 \quad +55$   
 $40 = t$

3.)  $9y + 11 = 119$   
 $-11 \quad -11$   
 $\frac{9y}{9} = \frac{108}{9}$   
 $y = 12$


4.)  $10x = 8x + 6$   
 $-8x \quad -8x$   
 $\frac{2x}{2} = \frac{6}{2} \quad (x=3)$   
 $x = 3$

5.)  $7x - 5 = 30$   
 $+5 \quad +5$   
 $\frac{7x}{7} = \frac{35}{7}$   
 $x = 5$

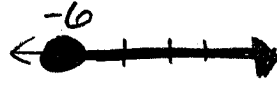
6.)  $-7(m-3) = 2(4m+3)$   
 $-7m - 21 = 8m + 3$   
 $-8m \quad -8m$   
 $-15m - 21 = 3 \quad (m=1.6)$   
 $+21 \quad +21$   
 $\frac{-15m}{-15} = \frac{24}{-15}$

Solve and graph:

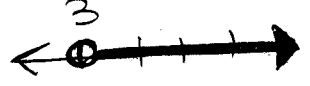
7.)  $x + 3 < 2$   
 $-3 \quad -3$   
 $x < -1$



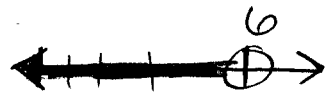
8.)  $-3h + 38 \leq 56$   
 $-38 \quad -38$   
 $-3h \leq 18$   
 $\frac{-3h}{-3} \quad \frac{18}{-3}$   
 $h \geq -6$



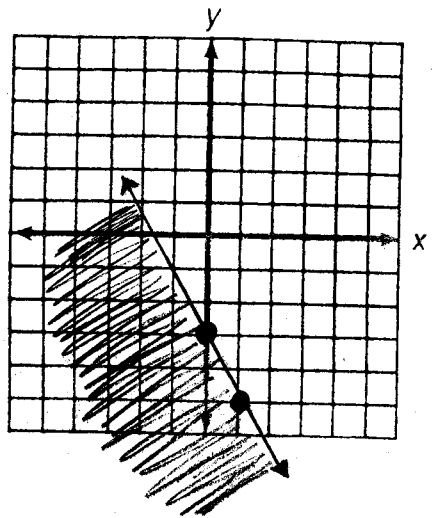
9.)  $7n - 2 > 19$   
 $+2 \quad +2$   
 $\frac{7n}{7} > \frac{21}{7}$   
 $n > 3$



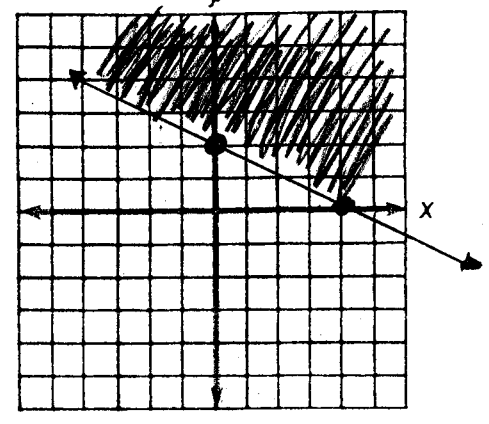
10.)  $7 > 2a - 5$   
 $+5 \quad +5$   
 $\frac{12}{2} > \frac{2a}{2}$   
 $6 > a$   
 $a < 6$



11.)  $y \leq -2x - 3$



12.)  $2x + 4y \geq 8$   
 $-2x \quad -2x$   
 $\frac{4y}{4} \geq \frac{-2x + 8}{4}$   
 $y \geq \frac{-2}{4}x + 2$



write an equation and solve:

13.) When  $n$  is decreased by 18 the result is -12.

$$\begin{array}{r} n - 18 = -12 \\ + 18 \quad + 18 \end{array}$$

$$\boxed{n = 6}$$

14.) Five more than 4 times a number <sup>is</sup> 33. Find the number.

$$\begin{array}{r} 5 + 4n = 33 \\ - 5 \quad - 5 \end{array}$$

$$\begin{array}{r} 4n = 28 \\ \div 4 \quad \div 4 \end{array} \quad \boxed{n = 7}$$

15.) 2 less than 3 times a number is 13. Find the number.

$$\begin{array}{r} 2 - 3n = 13 \\ - 2 \quad - 2 \end{array}$$

$$\begin{array}{r} -3n = 11 \\ \div -3 \quad \div -3 \end{array} \quad \boxed{n = -3.6}$$

16.) The difference between a number and 13 is 14.

$$\begin{array}{r} n - 13 = 14 \\ + 13 \quad + 13 \end{array}$$

$$\boxed{n = 27}$$

GLEs:

1.5.5 Apply procedures to solve equations.

1.5.2 Analyze a pattern or graph involving repeated addition to write an inequality. (graphing linear inequalities)