Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **7th Grade Math Winter HW:**

1. Complete homework assignment on mathxlforschool.com : **DUE WEDNESDAY JANUARY 1st.**

The assignment is called “**Midterm Review.”**

If you do not have internet access, you can print out a copy in school this week or at the library over break.

1. Pick **1** project from the following options : **DUE FRIDAY JANUARY 3rd**

* This project will count as a test grade.

Please make sure your work is done neatly: use scrap paper before you begin. You can submit your scrap paper as well.

**Choice 1: Poster: Proportional Relationships**

Divide a poster board into 4 areas labeled: Word Problem, Rate Table, Equation, and Graph

-       Create a word problem that describes a proportional relationship.

-       Show and explain how you would create a rate table for the proportional relationship.

-       Show and explain how you would graph the relationship on a coordinate plane.

-       Show and explain how you would write an equation to represent the proportional relationship.

Make sure you clearly identify the constant of proportionality in your work.

**Choice 2: Create a Cartoon:**

This project must contain a comic strip that demonstrates or explains **one** of the following concepts:

* Using Order of operations with Fractions and Integers.
* Finding Unit Rate – including complex fractions
* Solving word problems using proportions
* Showing proportional relationships using tables, graphs, and equations.

The comic strip must contain...

* A minimum of 8 panels (scenes)
* Clearly drawn characters
* A clear explanation of your chosen concept.
* Neatness counts – I must be able to read your words! (You can use multiple pages or even a poster board.)

**Choice 3: Glossary**

-       Create a glossary of 25 important terms we have covered (listed below)

-       For each of the following words, you must include:

|  |  |  |
| --- | --- | --- |
| Word | Definition | Example or Picture |
|  |  |  |

1)   Absolute Value

2)   Order of Operations

3)   Integer

4)   Rational Number

5)   Algorithm

6)   Commutative Property

7)   Associative Property

8)   Additive Identity

9)   Additive Inverse

10)   Multiplicative Inverse

11)  Multiplicative Identity

12)   Distributive Property

13)   Perimeter

14)   Area

15)   Scale Factor

16)   Similar Figures

17)   Ratio

18)  Part to Part Ratio

19)   Part to Whole Ratio

20)   Rate

21)   Unit Rate

22)   Proportion

23)   Rate Table

24)   Proportional Relationship

25)   Constant of Proportionality

**Extra Work**: Sign up for Kahn Academy: [www.khanacademy.org](http://www.khanacademy.org) if you have not already.

When you sign in, on the left hand side, click “Coaches” under the Community label.

It will say “Add a Coach”: enter

**723**: code **N4M56C**

**715**: code**46N67A**

**725:**code **RQ75U2**

*You can then “unlock your dashboard” by taking a pre-test. Tasks will be assigned to you based on your results. I can also assign you videos and work that will relate to our class work.*