Math
Monday 3/27/2017

We are going to correct your homework from Friday quickly before working on today's materials.

Today you will receive a study guide.

Your study guide is due **WEDNESDAY**

Your test is on **THURSDAY**! (Because we have no school on Friday)

Your additional homework this week will be to study and to practice the things that will be on the test.

Topics that will be on your test:

- translating equations and inequalities
- parts of an algebraic expression
- properties
- solving equations for X
- plugging in given values for X in an algebraic expression and simplifying
- combining like terms
- solving and graphing inequalities

Translating equations and Inequalities

This means translating phrases into math.

eg: Three times a number

Three times a number is equal to forty five

Three times a number is less than forty five

These you do not have to solve, just re‑write

Parts of an algebraic expression

Identify the variable, coefficient, and constant

$$3x+1$$

Properties

You need to memorize them

- Commutative property of multiplication
- Commutative property of addition
- Additive identity
- multiplicative identity
- Associative property of multiplication
- Associative property of addition
- Distributive property
- Multiplicative property of zero

Solving Equations

EG:

$2x = 15$

$3 + x = 45$

$x / 6 = 30$

Plugging in Values for X in Algebraic Expressions

Given that $X = 5$ and $y = 3$, solve the following:

$x + 5$

$3x + y$

$4y + 5x$

Combining like terms

Eg:

$3x + 4y + 45 - 15 + x$

$4y + 5x + x + 13 - 2x$

Solving and graphing inequalities

This is what we were working on just before the break

Solve and Graph:

$3x > 15$

$x+5 < 15$

Remember: If you need additional materials to help you study, just ask! Or, check out:

○ **Khan Academy**
○ **Math Antics**
○ **Your class website**
○ **come to tutoring on Tuesday**

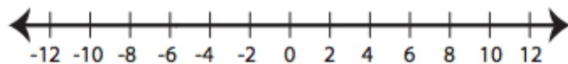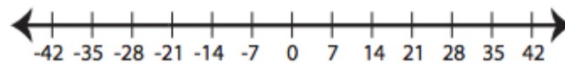**It is YOUR responsibility to be prepared for your end of unit test on Thursday.**

Solving & Graphing Inequalities

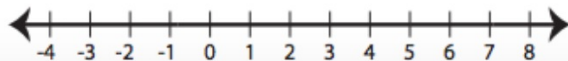Solve each inequality and graph the solution.
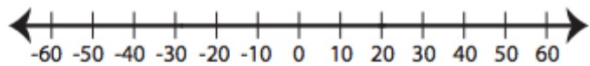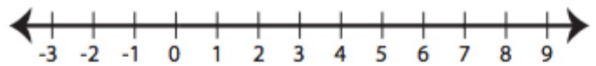
1) $x - 2 > 4$

2) $\dfrac{x}{3} \le 7$

3) $6x < 30$

4) $x + 9 \ge 11$

5) $\dfrac{x}{2} \geq 10$
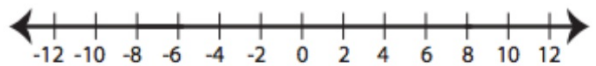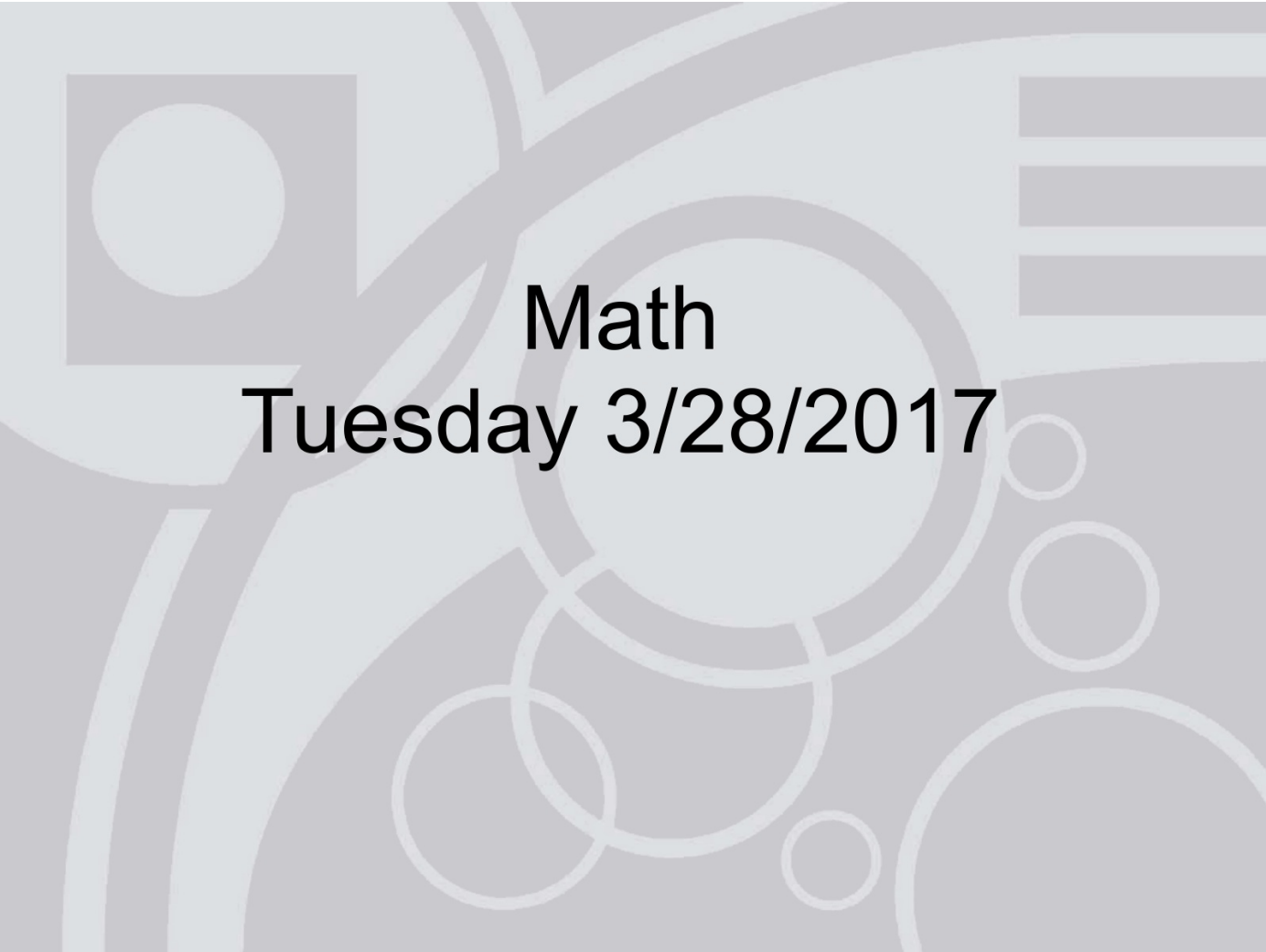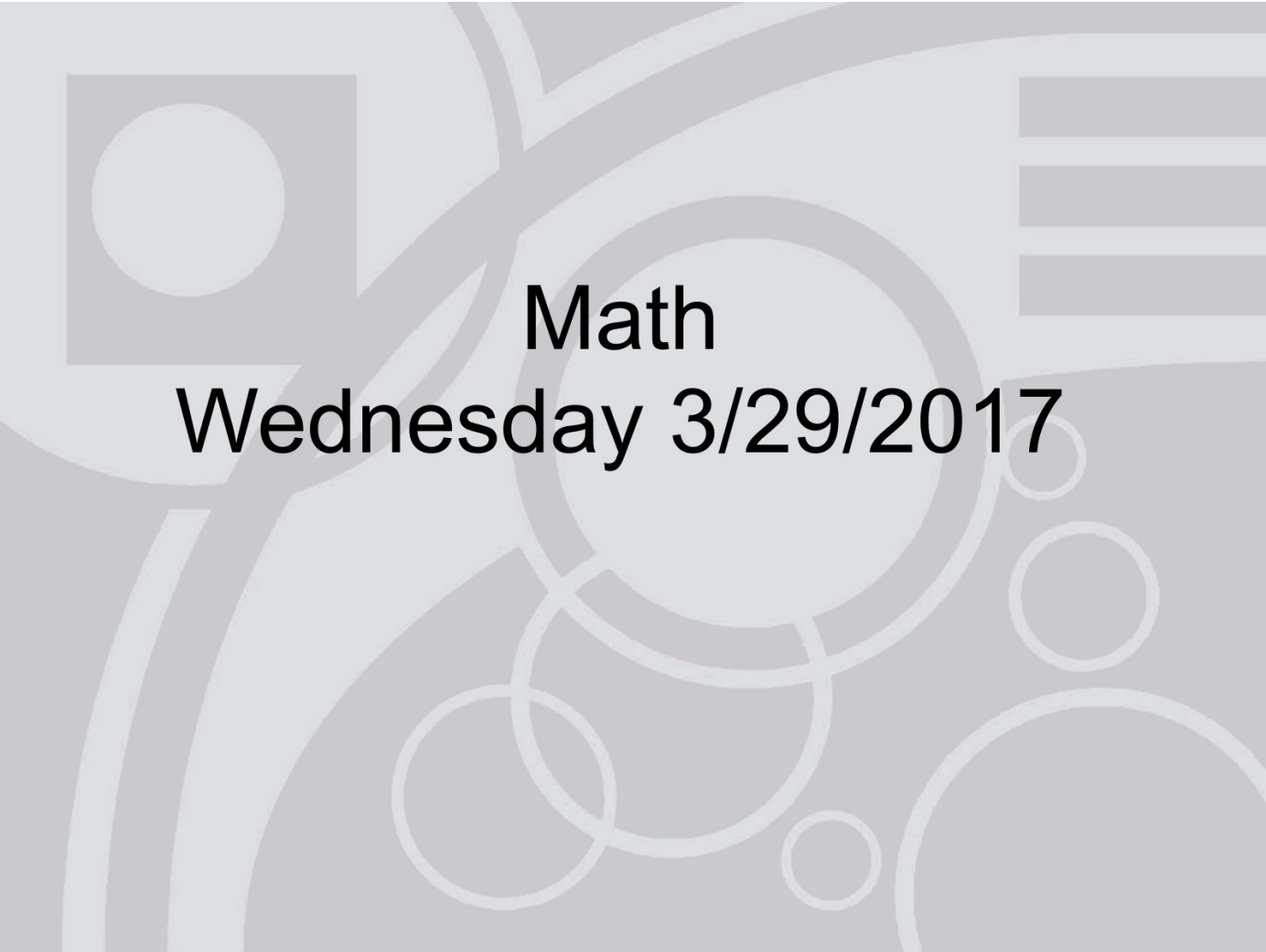

6) $x - 5 \leq 2$

7) $7 + x < 16$
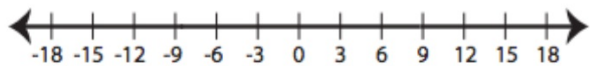
8) $4x \geq 32$

Math
Tuesday 3/28/2017

There are questions posted around the classroom

You will have 2 minutes to complete each station. In a moment, you will receive a number that will tell you which station to start at. You MUST work in your assigned group.

Are there any questions before we begin?

Math
Wednesday 3/29/2017

GET YOUR STUDY GUIDE OUT

Its time to go over it!

Algebra Test 2 Study Guide

_____

roup:_____

ow your Properties! Write them and their definitions here.

able to convert a math sentence into an algebraic expression

ice a number plus 5

oduct of X and 5

tio of a number and 15

w the difference between an algebraic expression, an equation, and quality. Explain using the space provided

able to solve one step equations.

-11= 16

0

4

= 15

able to plug in a value for X and Y in order to solve the algebraic

ssion

= 3, y=10

10

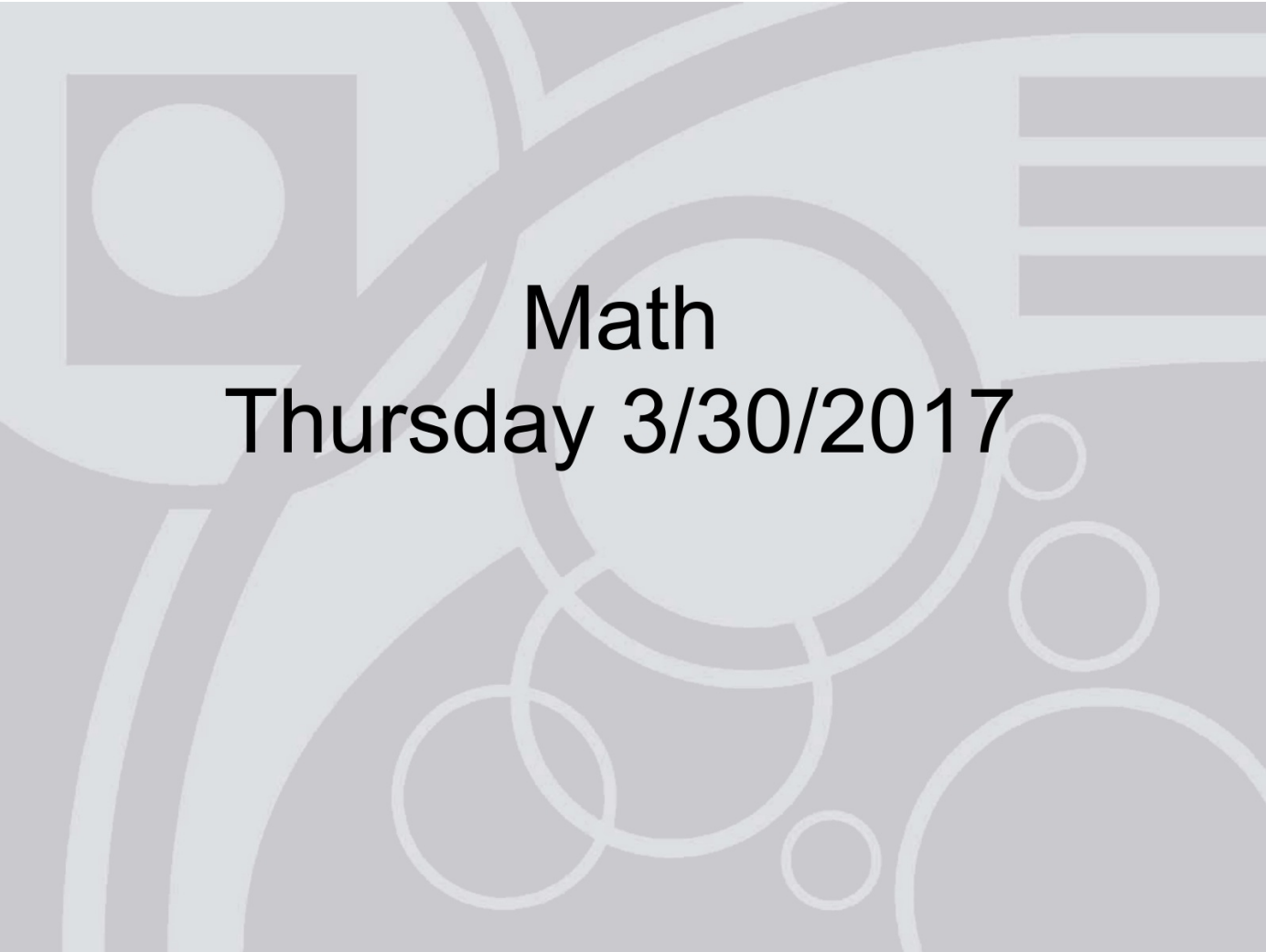lify the following by combining like terms

y+10x

3x+y +y +x +15 +20

d Graph the inequalities.

Math
Thursday 3/30/2017

Clear your desk! Its TEST TIME!