

INEQUALITIES

Algebra 5.0 Students solve multistep problems, including word problems, involving linear equations and linear inequalities in one variable and provide justification for each step.

Chorus (x2)

Mr. Queen, what you talking about?
Graphing inequalities is all I'm talking about
Oh, I know what you're talking about
That's the sign that looks like an alligator mouth, right?

Verse 1

The class like, "Mr. Queen, what you talking about?"
Graphing inequalities is all I'm talking about
All you really have to do is just walk it out
But on the number line, now let's talk it out
X is greater than 2 is what I'm thinking about
Step 1: make a number line and draw it out
Step 2: make an open circle on 2
Step 3: draw an arrow towards infinity
The positive direction is where you're headed
Cause your question said greater than 2
So you gotta show every number that's greater than 2
3, 4, 5, 6, 7, 8, 9, and so on and so forth
Less than and greater than are the signs we use, of course
We use a closed circle when it says greater than or equal to
And less than or equal to
From Mr. Q, now you know what to do

Chorus (x2)

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VARIABLES

7th Grade Algebraic Functions 1.1 Use variables and appropriate operations to write an expression, and equation, an inequality, or a system or equations or inequalities that represents a verbal description (e.g., three less than a number, half as large as area A).

Chorus

$X + 5$ or $10 - X$, yes

These are variable expressions

When you see $8x$ that's multiplication

$12/y$, that one's division

I did change the letter up, but that's my decision

The rules don't change but the letters do

Now lets evaluate $x + 9$ when $x = 2$

Verse 1

What is a variable?

Oh, it's very simple

You can use any letter in the alphabet

But in algebra we start off with x

Now x is used to represent a number

You may sit back and wonder, "How is that true?"

Well you just have to give that letter a value

But we moving too fast, let's slow down

Let's talk about a variable expression now

Chorus

Verse 2

11, $9 - x$, 7, and when your head starts to ache

And you need some Excedrin

Just take a break, start counting backwards from 11

10, 9, 8, and then 7

6, 5, 4, 3, 2, 1, now you know the math and it's fun

Just plug it in, evaluate, and you're done

And now please explain to me what you've learned

Chorus

Bridge

Now let's evaluate $10 - x$ when $x = 2$

The answer's 8, great

Now let's evaluate $2 + x$ when $x = 2$

The answer's 4 let's do more

Let's evaluate $3x$ when $x = 1$

The answer's 3 follow me

Now let's evaluate $6/x$ when $x = 3$

The answer's 2 what it do...

Chorus

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MEAN MEDIAN MODE AND RANGE

6th Grade Statistics, Data Analysis, and Probability 1.1: Compute the range, mean, median, and mode of data sets.

Yes! We're gonna continue to do a little more
We're gonna learn something real easy today

Chorus (x2)

Can you find the mean, the median, the mode, and the range?
It's easy, we'll learn it in one day
Find the mean, the median, the mode, and the range
Learn the rules to this game 'cause its easy to play

Verse 1

Let's find the mean, the median, the mode, and the range
This is the new concept for the day
When I say mean, I'm not talking attitude
I'm talking 'bout finding the average to
A few numbers, just add them up and divide
By the total amount, the mean is what you find
Now let's talk about the median
You can find it fast, find it slow, find it medium
This is the number in the middle of the list
But you gotta put them in order first to find it
If you have two numbers then you gotta find the average
But it's only two numbers you gotta manage
 $4 + 8 + 12$ is 24. The median's 8, the mean is 8
Now that's great, we'll keep it real simple for starters
The next one will be a little bit harder.

Chorus (x2)

Verse 2

Find the mean the median
The mode and the range
We have 2 down 2 more to explain
I know you can remember the codes to your game
So I know you can remember the mode and the range
The mode is the number that shows up the most
And the range is the difference between the high and the low
Subtract the small number from the biggest
Yep the range is your new figure, now this is too simple
So put your pencils up if you understand
If you have a question, just raise your hand
Don't second guess it cause that's how you learn
I bet you'll get an A, now see how much you've learned
In only one day. And when you take a test
Think, "What did my teacher say?"
Follow these steps and you'll be okay
Follow these steps and you'll be okay

Bridge

And if you want to get an education
Then you can't waste your time
And if you don't get it now be patient
You just gotta take your time
And if you want a good occupation
Then you can't waste your time
And I'll see you at graduation

Chorus (x2)

DISTANCE RATE TIME

7th Grade Algebraic Functions 4.2 Solve multistep problems involving rate, average speed, distance, and time or a direct variation.

Chorus (x2)

'Cause in an instant we'll learn about the distance

$D = R \times T$ with the quickness

You can get this, it's just distance, $D = R \times T$

Verse 1

D is for distance, R is for rate

T is for time, Imma say it one more time

The D is for the distance, R is for the rate, T is for the time

All you gotta do is plug it in, plug it in

What's given to you in the problem?

Just take your time, think about it, never quit

Check out the problem

And see what's given to you, that it's relevant

A car drives at 60 mph for 3 hours on a trip to a lake

Okay, we have a rate, and we know how long it takes

Just multi-multi ply-ply, times by the rate

60 times 3, that gives you 180

Just cancel out the hours

And the miles are the units, you see...see?

I told you how it's done

I bet you never thought math could be fun

But we've only just begun

Chorus (x2)

Verse 2

I bet you didn't know that you could calculate the rate

Yup yup, that's just $R = D$ over T , distance over time

You'll get it every time

The problem's like a lock

And the key is in your mind

Just think and you will find

There's a formula for time, $T = D$ over R

And now let's calculate the speed of a car

But first remember that speed and rate are

The same thing

If D is 100 miles and T is 2 hours

Then R is 50 miles per hour

If D is 100 miles and T is 2 hours

Then R is 50 miles per hour

All we did was divide

And if you R put distance over time

All we did was divide

And if you want R put distance over time

Chorus (x2)

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QUADRATIC FORMULOVE SONG

Algebra 21.0 Students graph quadratic functions and know
that their roots are the x-intercepts.

You know I got a new habit
I can't stop graphing quadratics
You know I have other homework
But the vertex is calling me
-b/2a and I can tell you what's next
Find the x-intercepts
Just use the quadratic formula
Negative b plus or minus $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
The square root
Of b squared minus 4ac
All over 2a, all over 2a
You just found the roots
But you can graph another way too
Just use an input and output chart
Once again the vertex is where you start
Choose a number on the left
Choose a number on the right
You'll be all right
And that's all you gotta do
Now you can graph quadratics too

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Of b squared minus 4ac
All over 2a, all over 2a
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But you can graph another way too
Just use an input and output chart
Once again the vertex is where you start
Choose a number on the left
Choose a number on the right
You'll be all right
And that's all you gotta do
Now you can graph quadratics too

POLYNOMIALS

Algebra 10.0 Students add, subtract, multiply and divide monomials and polynomials. Students solve multistep problems, including word problems, by using these techniques.

Chorus (x2)

P-O-L-Y-N-O-M-I-A-L-S

Get an "A" or else

Mama said it, so I know I gotta get it

Or Imma have to go to intersession in a minute

Verse 1

So let me tell you what I've learned

A polynomial with only one term is a monomial

And there are several degrees

A cubic's to the power of 3, a quadratic power of 2

A linear power is 1, constant power is none

You should be proud of you son and your daughter too

Cause you know a binomial has not one term but two

And a trinomial has a few

It's hard work going to school day in and day out

I hear tuck in your shirt, but it stays out

I know the rules but I can't conform

But I do know how to write a polynomial in standard form

Write the terms in descending order

The largest exponent to the smallest exponent

The next test is an easy opponent

Chorus (x2)

Verse 2

I was taught how to add back in grade school

I started off with one's and two's

That was easy for me, but now it's quantities

That I'm adding up

$(3x^2 + 2x - 1) + (2x^3 + x)$

What's next? You got the sum

$2x^3 + 3x^2 + 3x - 1$, easy huh?

Just distribute the sign, combine like terms

With subtraction

The only difference is you find the difference

I pay attention, that's why I know so much

When the school bell rings, my mind opens up

Like a positive quadratic, I love mathematics

I missed a few homeworks and that's a bad habit

I'm gonna make them up cause I wanna pass

I gotta get an A in this class

Chorus (x2)

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PEMDAS (ORDER OF OPERATIONS)

7th Grade Algebraic Functions 1.2 Use the correct order of operations to evaluate algebraic expressions such as $3(2x + 5)^2$.

Chorus

Please excuse my dear Aunt Sally
For she knows not how to do
This simple math, all she did was laugh
But I listen when I'm in class
Cause it goes O-O-O order of operations
O-O-O order of operations
O-O-O order of operations
Now you can be a math sensation

Verse 1

First do the work in the parentheses
It's easy, say it with a little emphasis
Now pick up your head, put your thinking cap on it
The next step: look at the exponent
The exponent? (Yeah) What's that teach?
That's the little number floating to the right of the digit
Oh yeah that's right.
Now take it back to third grade and just multiply
If you need to you can also divide
All Aunt Sally did was just add and subtract
As a matter of fact, now ya'll add and subtract
That's the last two steps. Woooo, now take a breath
It's easy, like ABC

But this is math so we're gon' say 123
From Mr. Q-U-E,
Now ya'll all can be math sensations like me

Chorus

Verse 2

Wanna be a math sensation just like me
If you like to count your money up just like me
First you gotta do your work in the parentheses
Next step is the exponent, yeah
Multiply and divide then add and subtract
Use the left to right rule when you're doing your math
Just do it like this and you're gonna pass
Now sing along with me while we do this math
It goes O-O-O order of operations
O-O-O order of operations
O-O-O order of operations
Now you can be a math sensation
O-O-O order of operations
O-O-O order of operations
O-O-O order of operations
Now you can be a math sensation

SLOPE INTERCEPT

Algebra 6.0 Students graph a linear equation and compute the x- and y-intercepts (e.g., graph $2x + 6y = 4$). They are also able to sketch the region defined by linear inequalities (e.g., they sketch the region defined by $2x + 6y < 4$).

Chorus (x2)

Let's talk about slope intercept
I don't mind if you interject, just don't disrespect
You say you got a question for me, yes?
What's $y=mx+b$?

Verse 1

This is a line in function form, it's also slope intercept for it
Half ya'll like, "This is boring"
The other half is like, "This sounds foreign"
M represents the slope of a line
If it's negative then you know it declines
B is where it crosses the Y axis
If you don't pay attention then why ask us
To repeat? Sit down in your seat
Listen to the words that I say to this beat
Parallel lines have the same rise over run
Even if the y-intercepts are a 9 and a 1
Question: can you plot three ordered pairs?
Pick the X values and the Y is there, oh my I swear
This math stuff is easy and Imma take you there

Chorus (x2)

Verse 2

Ya'll sound so typical, ya'll like math I'm sick of you
But can you find the reciprocal?
Can you tell me what the power to the tenth will do?
If you can then you can be the principal
Get a loan and don't think about the principle
Is your variation direct?
Did you know that $K = Y/X$, yup! Just food for thought
And please try to remember all the things I taught
And don't forget where you come from, your origin
And $Y = KX$ always goes through the origin
 $X = A$ and $Y = B$
Vertical and horizontal lines respectively
Doing math is like cooking, and these notes are the recipe
From Mr. Q-U-E, let's go LA Academy!

Chorus (x2)

Bridge (x2)

Do your classwork, do your homework, yes (x4)
Get A's on the quiz, get A's on the test (x4)
Notes, notes, notes, notes, notes, notes, put your pens up (x2)

A'S ON MY PAPER

Chorus

I'm all about my paper, A's on my paper
Gotta do my best, get A's on my paper
J's on my feet, A's on my paper
You know I stay fresh cause it's A's on my paper
I stay in my seat, A's on my paper
A E E, you know it stays on my paper
If I get good grades on my papers
Then my pockets stay with some paper

Verse 1

I walk on the campus, work in my backpack
I did it all last night, man I'm on the right track
Math work check, history check, science check, English yup!
I got it all here, my mind's so clear
Gotta learn all I can before the end of the year
Maybe slide to the library, grab a book
Can't wait to see the grades on the quiz I took
Yesterday was a good day for me
Another nice page, add to my life story
Always cooperate, teachers adore me
Never disrespect, that's what my parents taught me
So you ought to, follow my lead, come and study with me
You know we all can succeed, just believe and achieve
A positive attitude is the way you gotta be
P-O-S-I-T-I-V-E

Chorus

Verse 2

I walk into class, agenda on the board
A test on Friday, okay I gotta score
At least an 85%, I know I can get it
Better yet a 9-0 is what I'm gonna strive for
Open up the textbook and study the chapter
A multi-step equation, okay what's the answer?
Well there's a process, first thing distribute
But only if you have to
What else did I learn?
Well, combine like terms
And then isolate the variable
Get X by itself man it's very simple
And then look at your equation
Next thing do inverse operation
That's just add and subtract
And then multiply and divide
You got the right answer and you're feeling so fine
The right answer got you feeling so fine

Bridge

Break it down, I can show you how to break it down minds.

Chorus