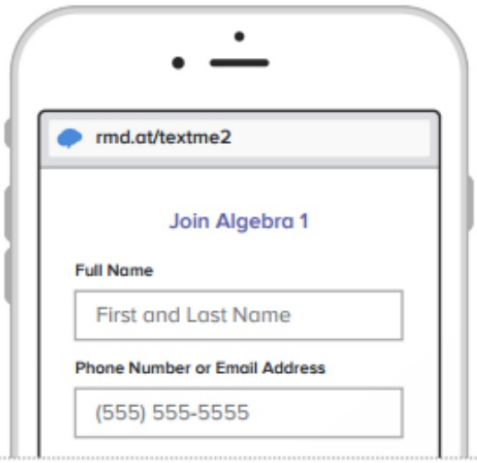
A

If you have a smartphone, get push notifications.

On your iPhone or Android phone, open your web browser and go to the following link:

rmd.at/textme2

Follow the instructions to sign up for Remind. You'll be prompted to download the mobile app.



B

If you don't have a smartphone, get text notifications.

Text the message @textme2 to the number 81010.

If you're having trouble with 81010, try texting @textme2 to (434) 227-4245.

Don't have a mobile phone? Go to rmd.at/textme2 on a desktop computer to sign up for email notifications.

Welcome to Algebra!

What this presentation will cover:

- How the class works
- How the assessments work
- My expectations for success
- Classroom supplies/ student needs

A bit about us ...

Mr. Wurst	Algebra 1 and Geometry
Mrs. Jordan	Algebra 1 and Geometry
Mrs. Marquiss	Algebra 1 and Algebra 2/ Trig.
Mrs. Newman	Algebra 1 and Algebra 2/ Trig.
Mr. Arikan	Algebra 1 and Geometry

Algebra ...

The essence of Algebra is not simply to find an answer. The beauty lies in the space between a problem and it's solution. (and then checking it)

$$ax^2+bx+c=0$$

$$x^2+\frac{b}{a}x+\frac{c}{a}=0 \qquad \text{Divide by } a$$

$$x^2+\frac{b}{a}x=-\frac{c}{a} \qquad \text{Subtract } \frac{c}{a} \text{ from both sides}$$

$$x^2+\frac{b}{a}x+\left(\frac{b}{2a}\right)^2=-\frac{c}{a}+\left(\frac{b}{2a}\right)^2 \qquad \text{Complete the square}$$

$$x^2+\frac{b}{a}x+\frac{b^2}{4a^2}=-\frac{c}{a}+\frac{b^2}{4a^2} \qquad \text{Rewrite in simpler form}$$

$$\left(x+\frac{b}{2a}\right)\left(x+\frac{b}{2a}\right)=-\frac{c}{a}\cdot\frac{4a}{4a}+\frac{b^2}{4a^2} \qquad \text{Factor on left;}$$

Find LCD on right

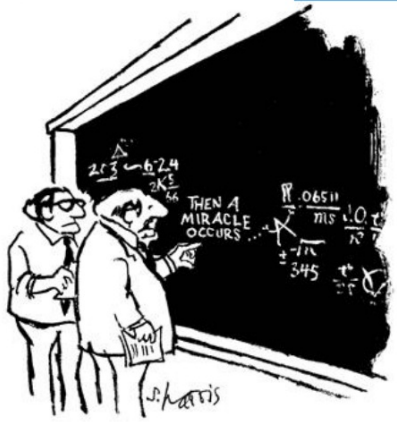
$$\left(x+\frac{b}{2a}\right)^2=\frac{b^2-4ac}{4a^2} \qquad \text{Simplify}$$

$$\sqrt{\left(x+\frac{b}{2a}\right)^2}=\pm\sqrt{\frac{b^2-4ac}{4a^2}} \qquad \text{Take square root of both}$$

$$x+\frac{b}{2a}=\frac{\pm\sqrt{b^2-4ac}}{2a} \qquad \text{Simplify}$$

$$x+\frac{b}{2a}-\frac{b}{2a}=\frac{\pm}{}$$

$$x=\frac{-}{-}$$



"I think you should be more explicit here in step two."

How the class works ...

Day 7: Proportions

- Day 7: Blank Notes ☐
- Day 7: Proportions Video ☐
- Day 7: Video Knowledge Check ☐
- Day 6: 6B ☐
- Day 6: 6B Key ☐

Day 6: Variables on Both Sides

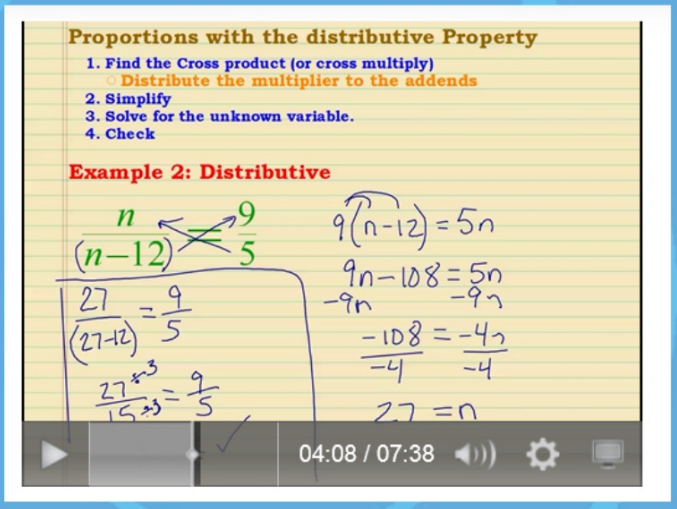
- Day 6: Blank Notes ☐
- Day 6: VBS Video ☐
- Day 6: Video Knowledge Check ☐
- Day 5: 5B ☐
- Day 5: 5B Key ☐
- Get to know you survey - please take ☐

Day 5: Multi-step Equations

- Day 5: Blank Notes ☐
- Day 5: MSE Video ☐
- Day 5: Video Knowledge Check ☐
- Day 4: 4B ☐

A child will find natural success by practice, good habits, and responsibility.

Preview Lesson and Note Taking ...



Topic: Exponents and Evaluating Expressions

4A

Vocab

1.

2.

3.

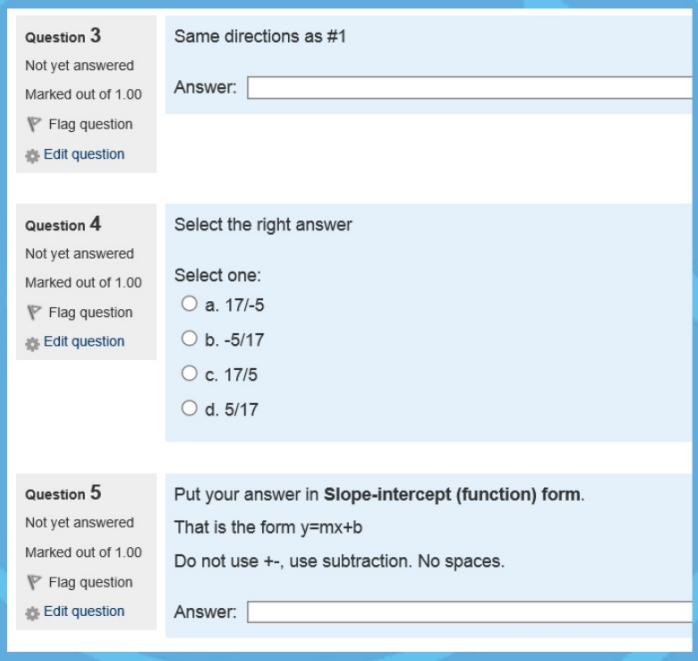
4.

Ex 1: Single Step Equations	Ex 2: Single Step Equations
U-Try 1	Ex 3: Two Step Equations
uations	U-Try 2

Students are able to:

- Practice organized Note Taking
- Pause, Rewind, and Rewatch any Concept
- Work at their own pace

The warm-ups are done at home and graded



Question 3
Not yet answered
Marked out of 1.00
Flag question
Edit question

Same directions as #1

Answer:

Question 4
Not yet answered
Marked out of 1.00
Flag question
Edit question

Select the right answer

Select one:
- a. 17/-5
- b. -5/17
- c. 17/5
- d. 5/17

Question 5
Not yet answered
Marked out of 1.00
Flag question
Edit question

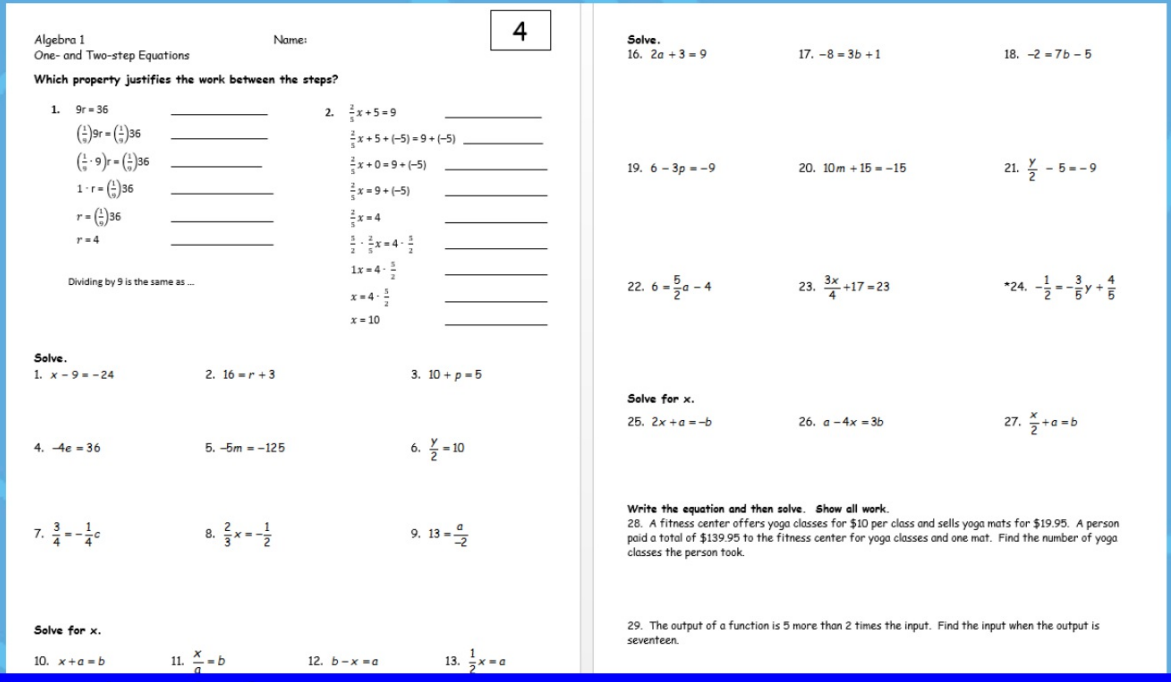
Put your answer in **Slope-intercept (function) form**.
That is the form y=mx+b
Do not use +-, use subtraction. No spaces.

Answer:

Students are able to:

- Practice problems embedded into the video
- Submit the answers to get graded
- Come to class fully prepared to ask question, participate and practice!

The class time will be reserved for Practice!



Algebra 1 Name: 4

One- and Two-step Equations

Which property justifies the work between the steps?

1. $9r = 36$
   $\left(\frac{1}{9}\right)9r = \left(\frac{1}{9}\right)36$
   $\left(\frac{1}{9}\cdot 9\right)r = \left(\frac{1}{9}\right)36$
   $1\cdot r = \left(\frac{1}{9}\right)36$
   $r = \left(\frac{1}{9}\right)36$
   $r = 4$

   Dividing by 9 is the same as ...

2. $\frac{2}{5}x + 5 = 9$
   $\frac{2}{5}x + 5 + (-5) = 9 + (-5)$
   $\frac{2}{5}x + 0 = 9 + (-5)$
   $\frac{2}{5}x = 9 + (-5)$
   $\frac{2}{5}x = 4$
   $\frac{5}{2}\cdot\frac{2}{5}x = 4\cdot\frac{5}{2}$
   $1x = 4\cdot\frac{5}{2}$
   $x = 4\cdot\frac{5}{2}$
   $x = 10$

Solve.

1. $x - 9 = -24$
2. $16 = r + 3$
3. $10 + p = 5$
4. $-4e = 36$
5. $-5m = -125$
6. $\frac{y}{2} = 10$
7. $\frac{3}{4} = -\frac{1}{4}c$
8. $\frac{2}{3}x = -\frac{1}{2}$
9. $13 = \frac{a}{-2}$

Solve for x.

10. $x + a = b$
11. $\frac{x}{n} = b$
12. $b - x = a$
13. $\frac{1}{2}x = a$

Solve.

16. $2a + 3 = 9$
17. $-8 = 3b + 1$
18. $-2 = 7b - 5$
19. $6 - 3p = -9$
20. $10m + 15 = -15$
21. $\frac{y}{2} - 5 = -9$
22. $6 = \frac{5}{2}a - 4$
23. $\frac{3x}{4} + 17 = 23$
*24. $-\frac{1}{2} = -\frac{3}{5}y + \frac{4}{5}$

Solve for x.

25. $2x + a = -b$
26. $a - 4x = 3b$
27. $\frac{x}{2} + a = b$

Write the equation and then solve. Show all work.

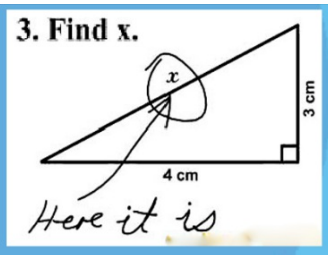
28. A fitness center offers yoga classes for $10 per class and sells yoga mats for $19.95. A person paid a total of $139.95 to the fitness center for yoga classes and one mat. Find the number of yoga classes the person took.

29. The output of a function is 5 more than 2 times the input. Find the input when the output is seventeen.

The class time is for:

- Asking questions on any old or new topic while they practice.
- Group discussion time is about diving deeper into the concept.
- Practice the concept, make corrections, self assess.
- All while I am in the room ready and willing to help coach.

I will try to make Phoenix as clear as possible ...



deo Notes 6A	Summative Quiz 6A: One, Two, and Multi-	Practice 6B: Variable Both Sides	Video Notes 7A	Practice 7B: Proportions and Rewriting	Video Notes 8A	Practice 8B: Study Guide Equations Unit	Summative Test 9A: Solving	Video Notes 10A	Prac solve and i
16 1×0	9/16 50	9/18 1×0	9/18 1×0	9/22 1×0	9/22 1×0	9/24 1×0	9/24 100	9/26 1×0	9/30

- Every assignment will be entered for the quarter.
- An assignment will be marked as:
  - 1 if complete or
  - 0 if incomplete or not shown to me on the day that it is due.
- Practice will not count as complete unless all work is shown correctly.

Assessment as clear as possible ...

- Students are afforded the opportunity to improve their low grade
- Re-test policy for SHM...
- Student must complete teacher designated remediation work and/or approved re-teaching session.

My expectations ...

Every day the student enter the room they are prepared with:

The practice from the previous day completed and checked with the key.
The notes sheet for the current day's concept filled out completely.
The knowledge check (video assessment) submitted before-hand.

Questions from any previous assignment's practice that is unclear.
A pencil, a pen, and their organized binder.

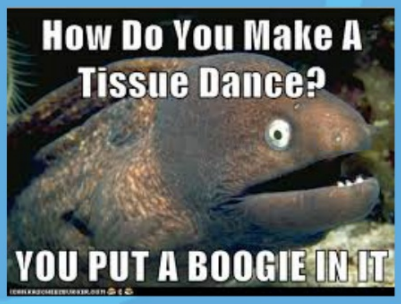
The desire to commit to understanding the concept and willingness to ask if they don't.

"For the things we have to learn before we can do them, we learn by doing them."

- Aristotle

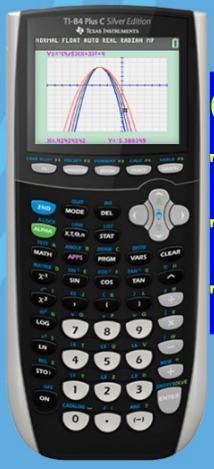
Classroom Supplies / Student Needs

We are dangerously low on tissues. Save the sleeves, please donate tissues.



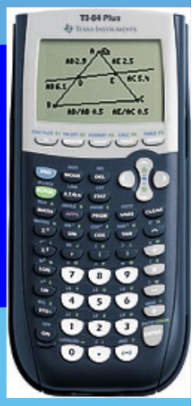
In Class

Pencils
Pens (for their own grading)
A binder (1.25 or 1.5 inch)
A positive attitude



At Home

Calculator:
TI-84
TI-84 Plus
TI-84 Plus C



That's it!

Questions?