

# 6 SIGNS OF

# UNFORGETTABLE LESSONS

ROBERT KAPLINSKY

[robert@robertkaplinsky.com](mailto:robert@robertkaplinsky.com)

[robertkaplinsky.com](http://robertkaplinsky.com)

@robertkaplinsky







February 28 ·



If a thief forces you to take money out of an ATM, do not argue or resist. What you do is punch in your pin # backwards. EX: if its 1234, you'll type 4321. When you do that, the money will come out but will be stuck in the slot. The machine will immediately alert the local police without the robbers knowledge & begin taking photos of the suspect. Every ATM has the feature. Stay safe.

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# Will Entering Your PIN in Reverse at an ATM Summon the Police?

Entering your PIN in reverse at any ATM will not automatically send an alarm to local police -- the idea is nothing more than an old and unimplemented suggestion.

## CLAIM

Entering your PIN in reverse at any ATM will automatically summon the police.

[See Example\(s\)](#)

## RATING

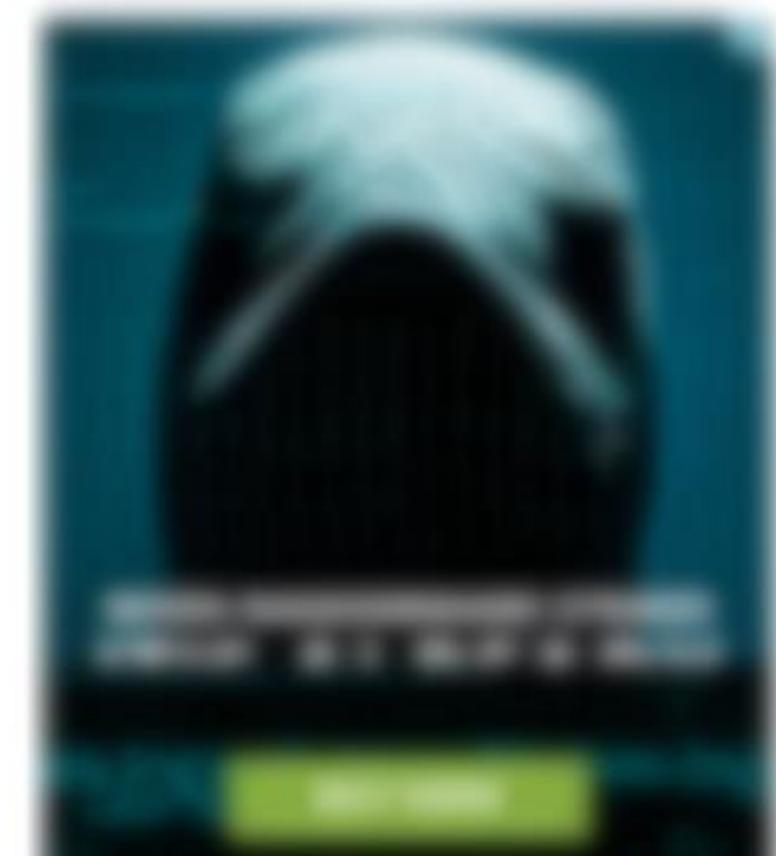
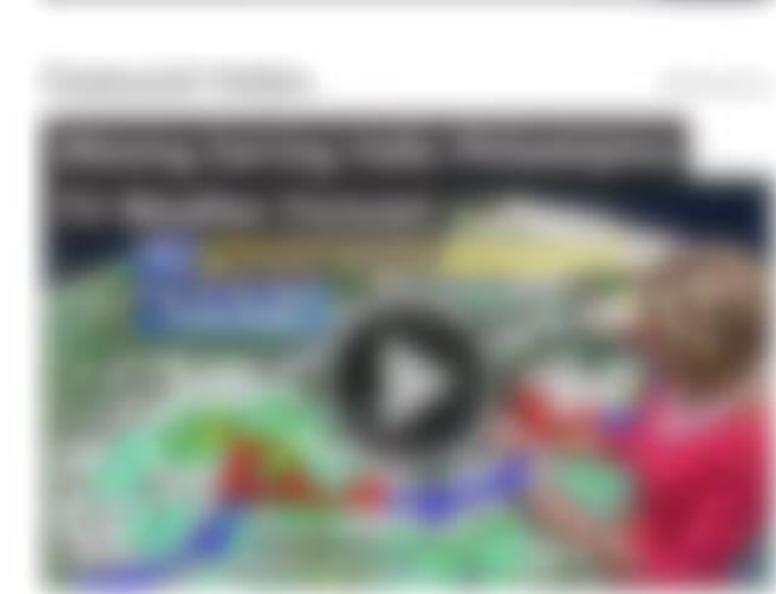
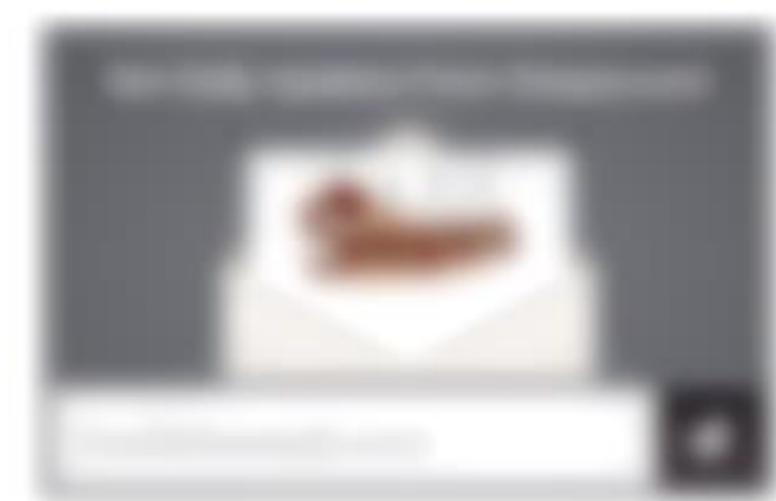
**FALSE**

## ORIGIN

Messages offering a seemingly helpful heads-up about how to deal with a situation in which one is forced to hand over money withdrawn from an ATM under duress began circulating on the Internet in September 2006:



If a thief forces you to take money out of an ATM, do not argue or resist.





Tell them what you're going  
to tell them. Tell it to them.

Then tell them what you told  
them.

**UNKNOWN**

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

## Lesson 12 Skills Practice

Objective: Write PIN Backwards

Write backwards.

1. 0461

1640

7. 6842  
2486

2. 3625

5263

8. 7532  
2357

3. 9572  
2759

9. 1549  
945

4. 8713  
3178

13.

14

8109

# Presentation

- Tell them what you're going to tell them.
- Tell it to them.
- Then tell them what you told them.

# Lesson

- State the lesson objectives.
- Teach the lesson.
- Review the lesson objectives.

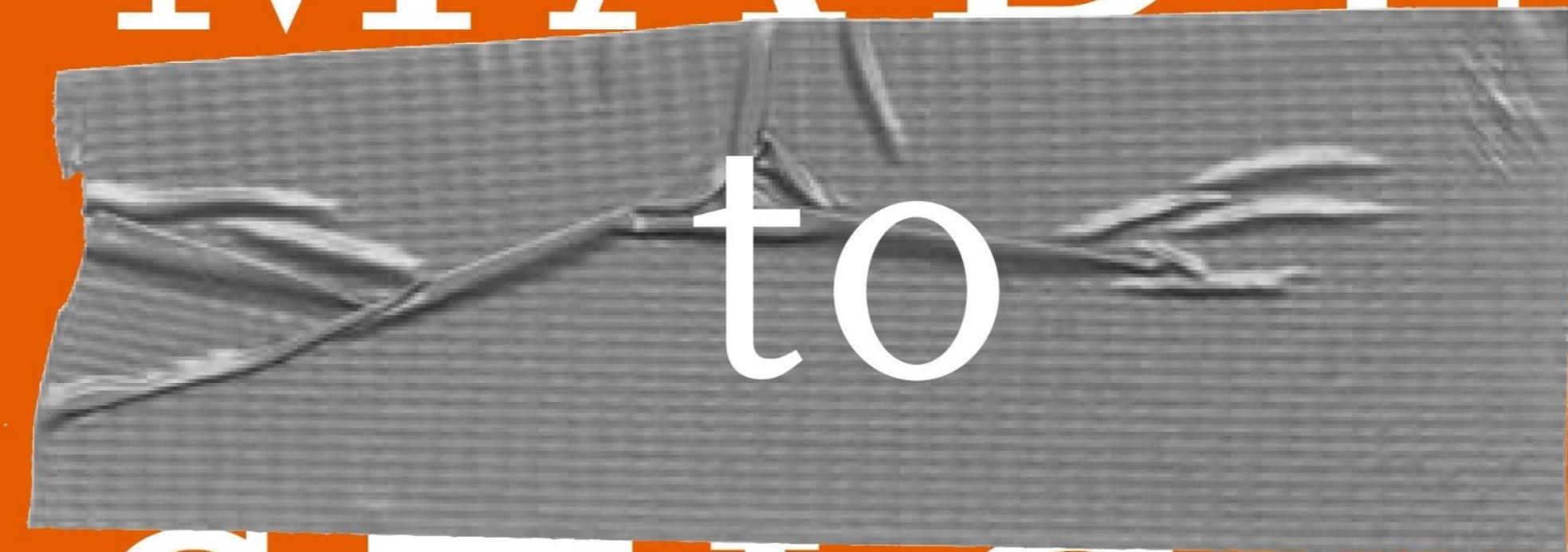


The definition of insanity is  
doing the same thing over  
and over again but expecting  
different results.

**UNKNOWN**

Why Some Ideas Survive and Others Die...

# M A D E



# to S T I C K

Chip Heath & Dan Heath

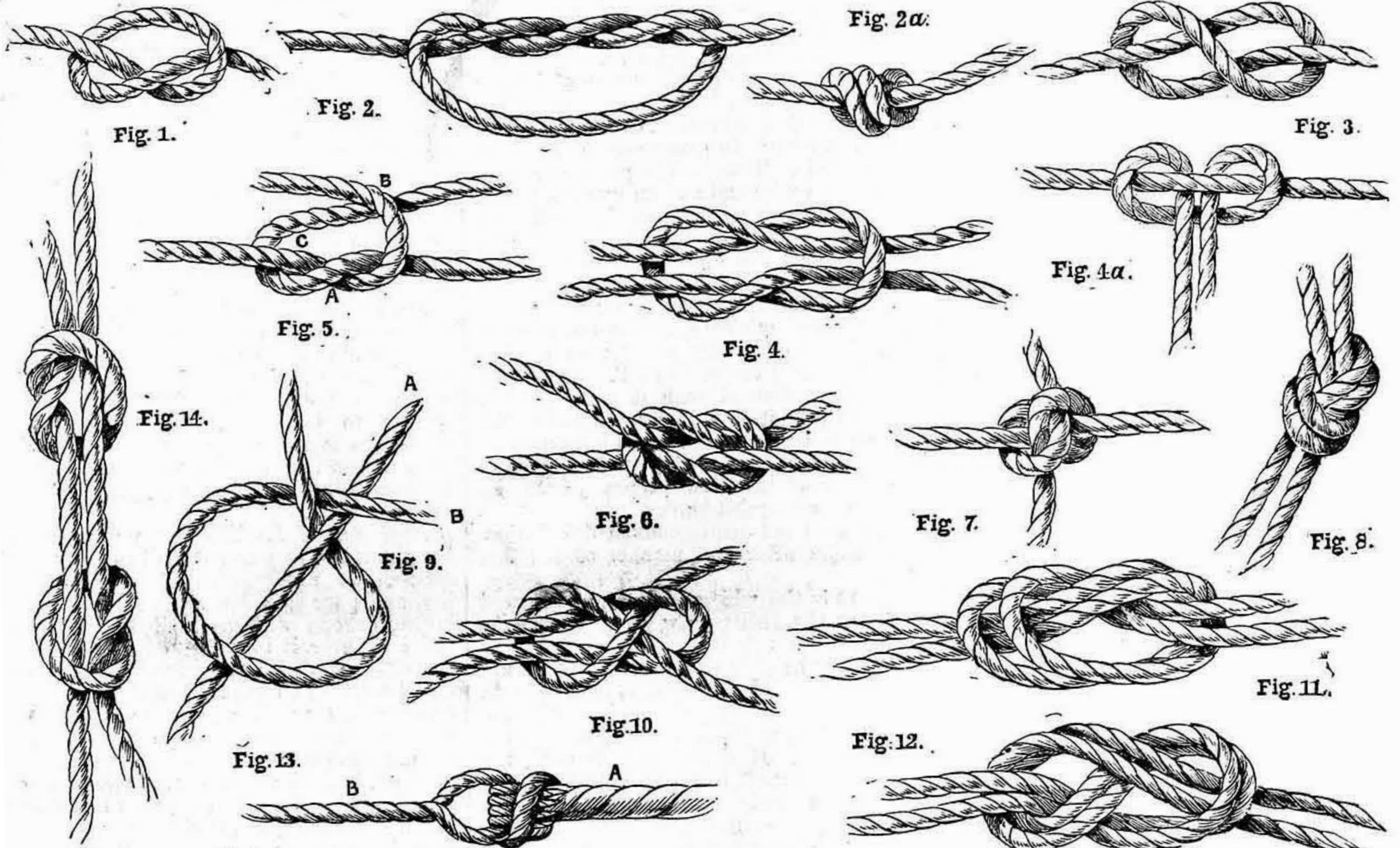
- Understood
- Remembered
- Lasting impact

# STICKY ATTRIBUTES

- SIMPLE
- UNEXPECTED
- CONCRETE
- CREDIBLE
- EMOTIONAL
- STORIES

Simplify.

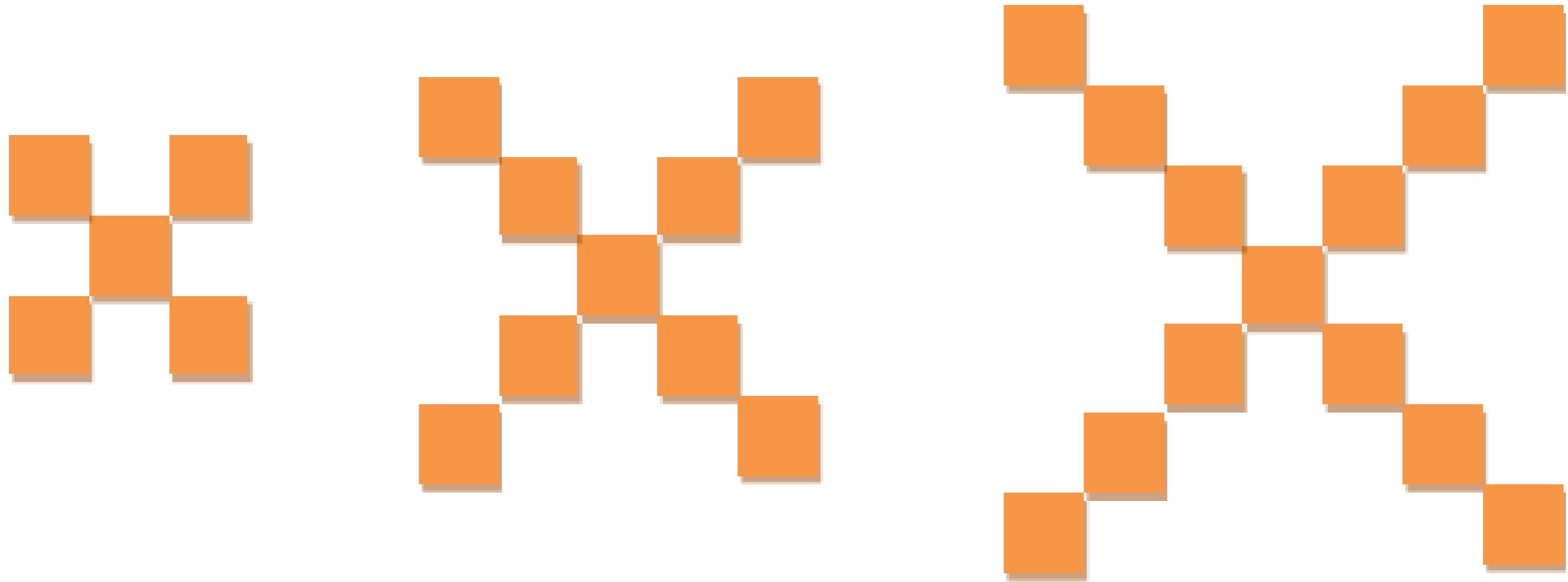
$$(x^2 + 3)(2x^3 - 7x + 4)$$





If math is the aspirin,  
then how do you  
create the headache?

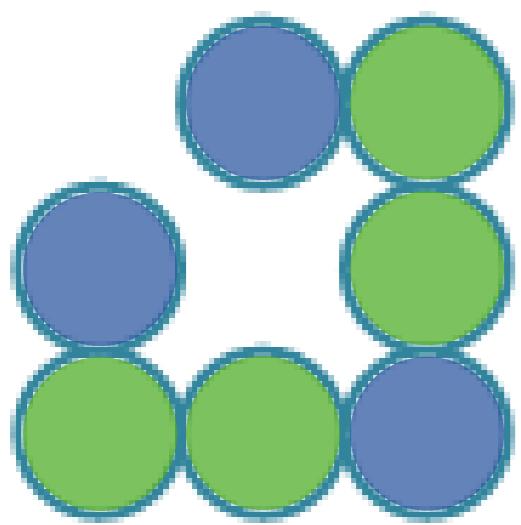
DAN MEYER



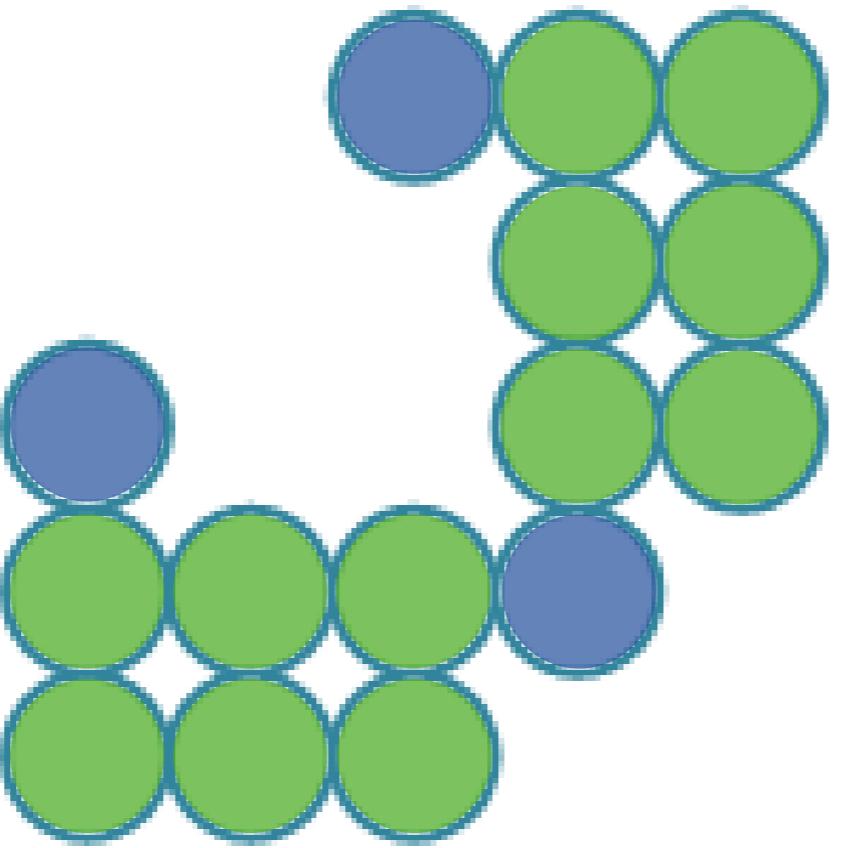
**Step 1**

**Step 2**

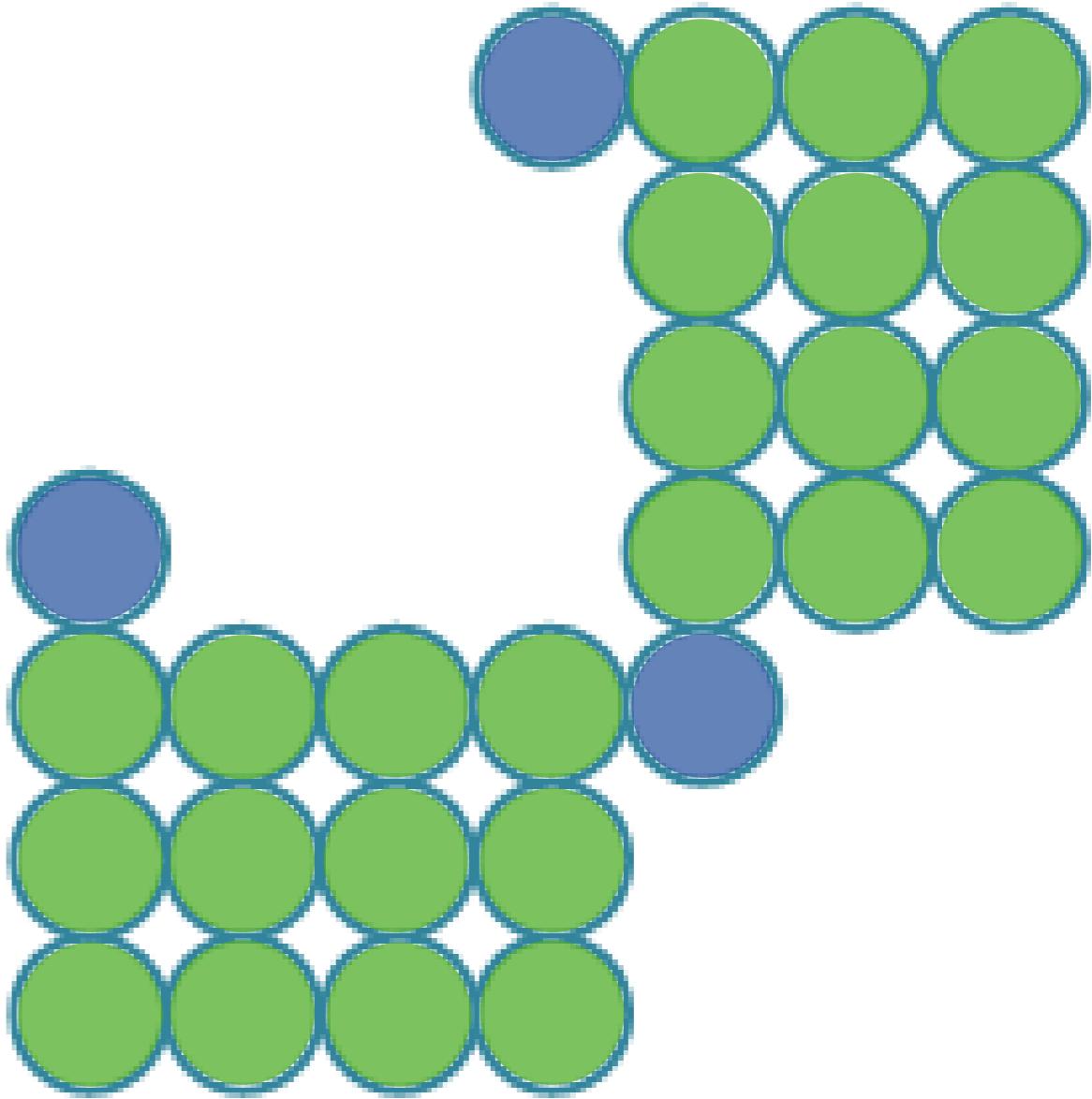
**Step 3**



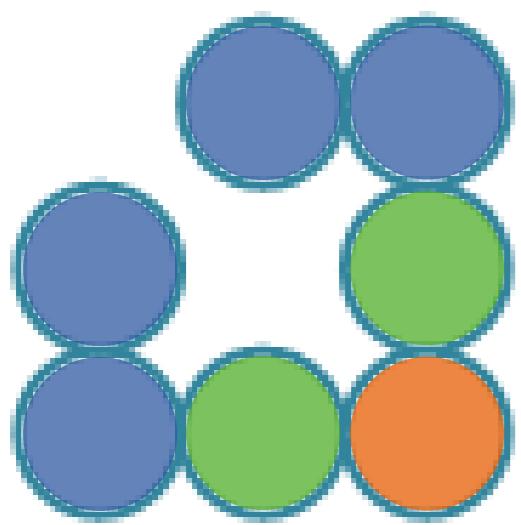
**Step 1**



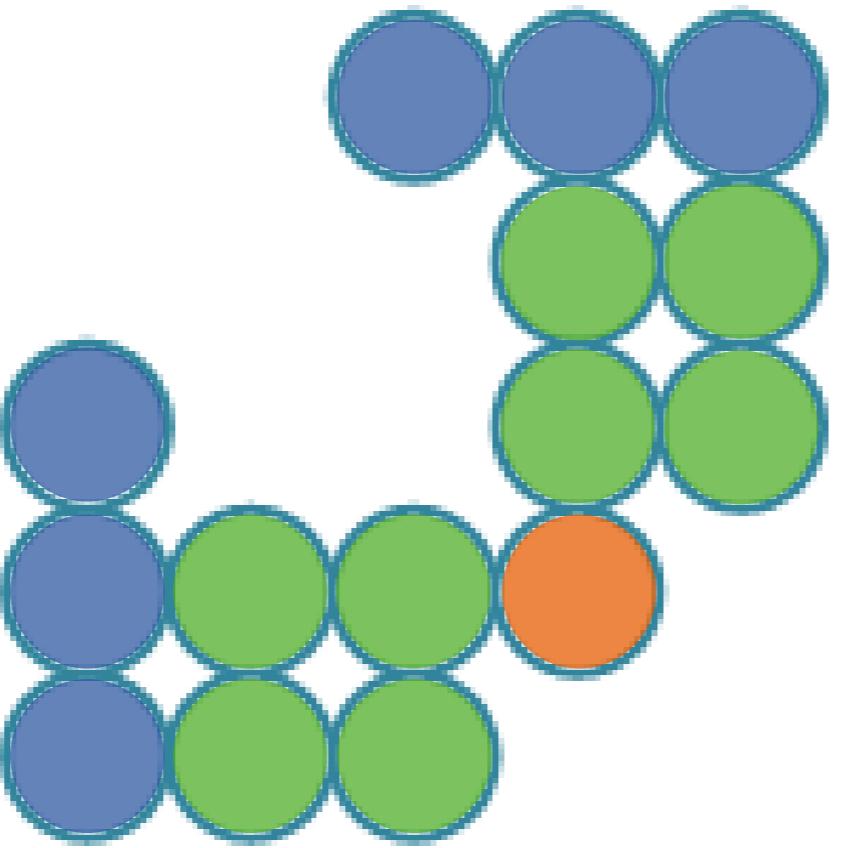
**Step 2**



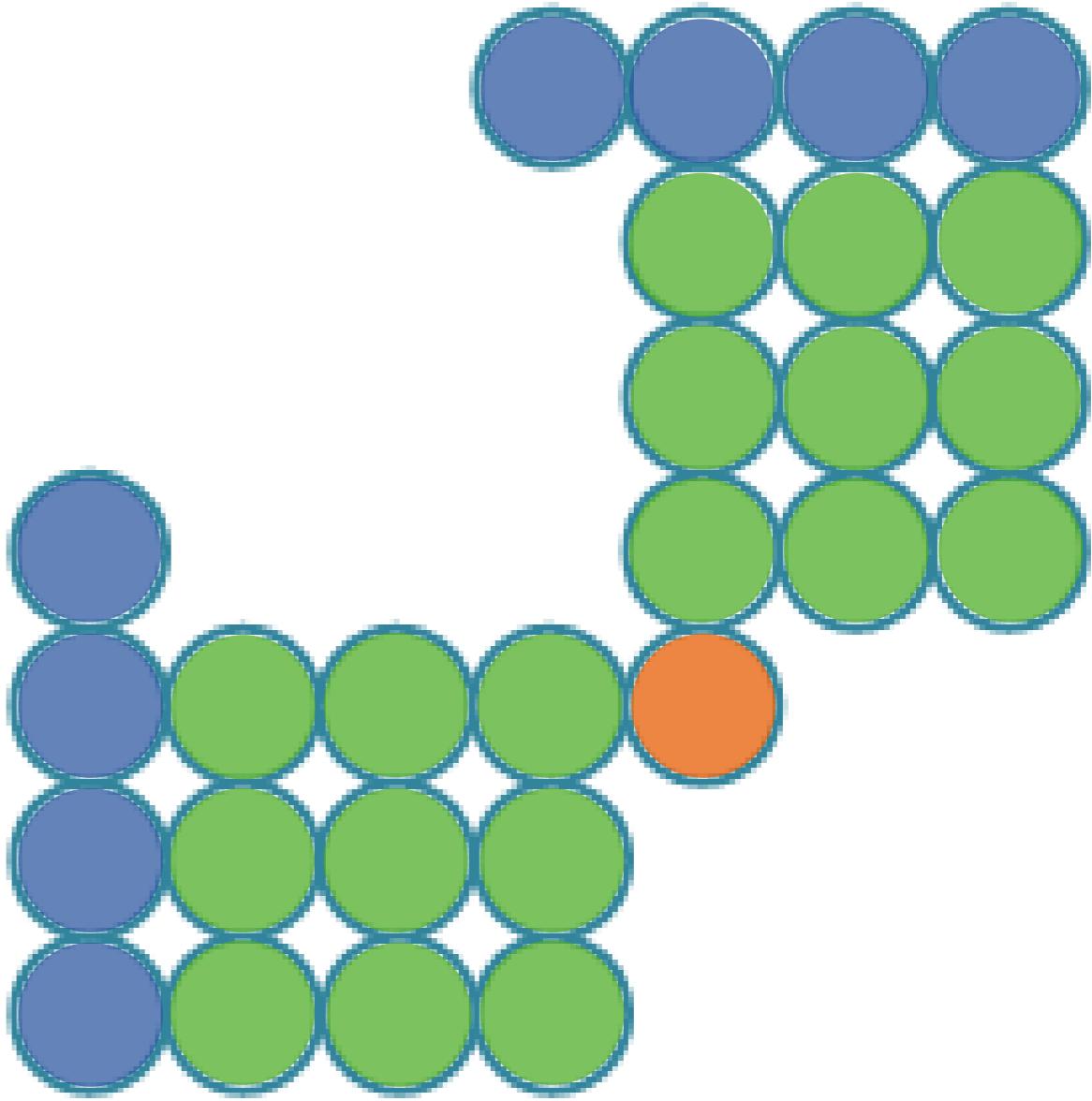
**Step 3**



**Step 1**



**Step 2**

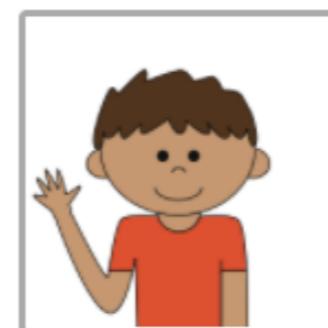
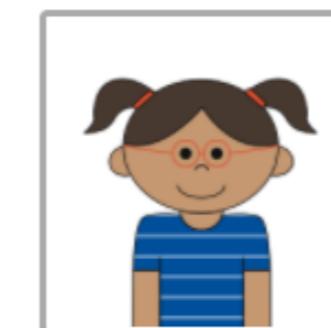
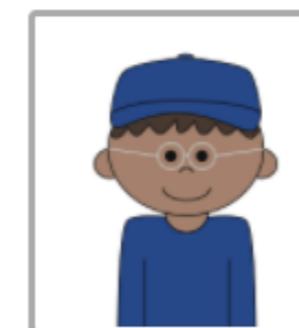
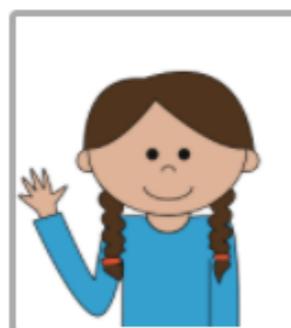
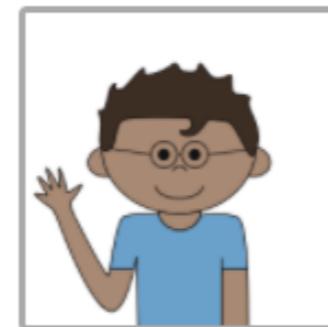
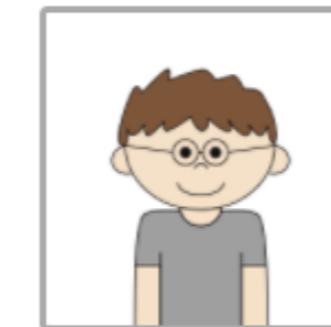
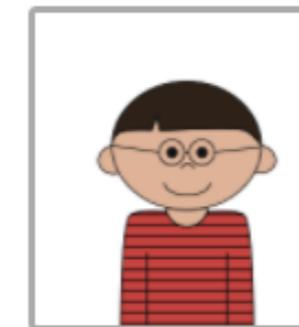
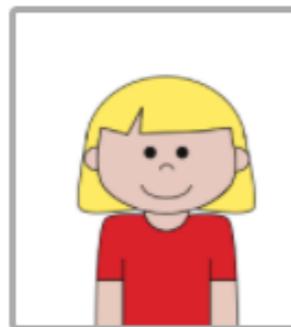
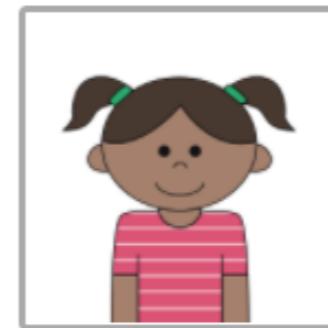
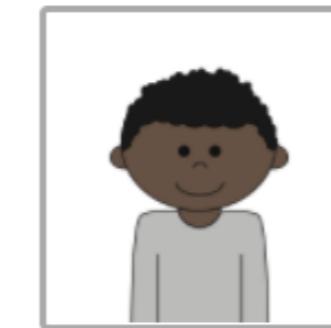
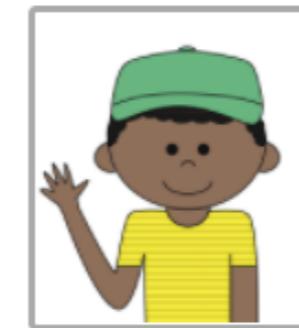
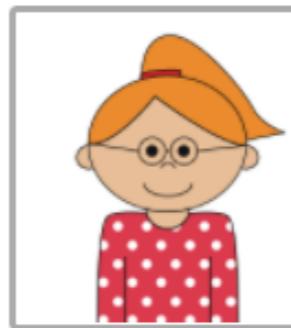
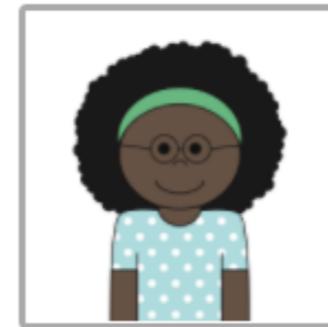
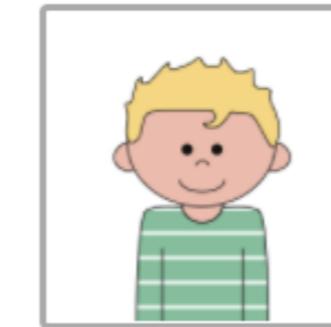
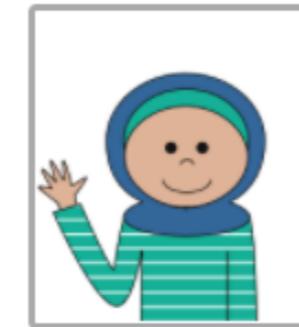


**Step 3**

Select a person that's special to you for any reason.

Next

[Skip the practice round.](#)



Questions Asked: 0

Your Partner: fghfgh

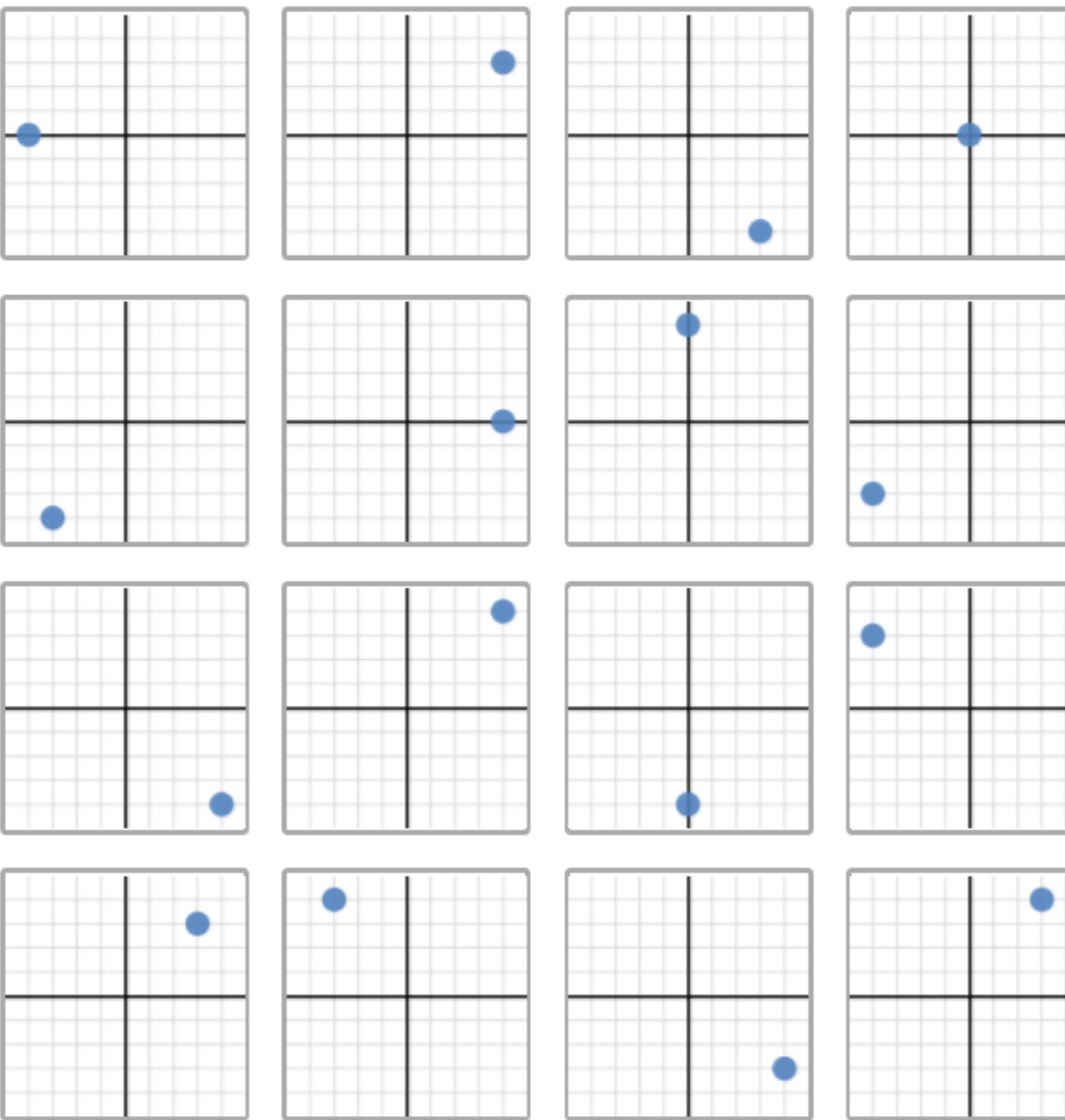


Your challenge: figure out which graph your partner picked. Ask a "yes" or "no" question about the graph.

 Send

Questions Asked: 0

Your Partner: ghjhgj



Your challenge: figure out which graph your partner picked. Ask a "yes" or "no" question about the graph.



Send

Questions Asked: 2

Your Partner: Lupita

YOU ASKED

Does your line go up and down?

YOUR PARTNER CHOSE

Yes

YOUR PARTNER ELIMINATED



YOU ASKED

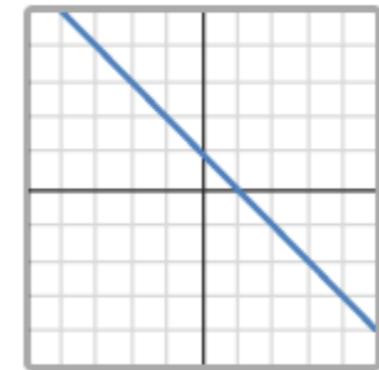
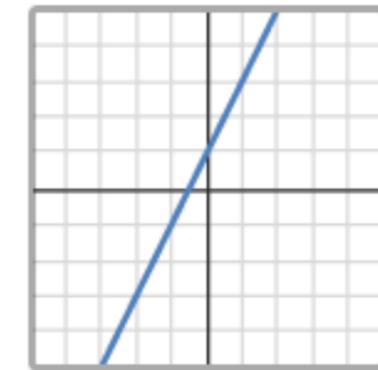
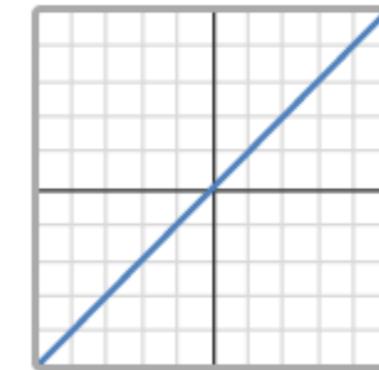
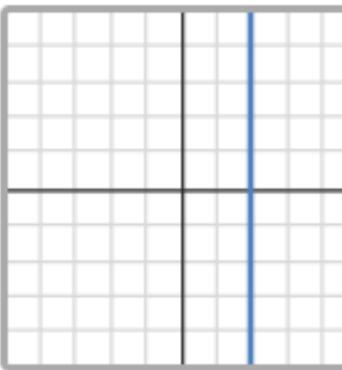
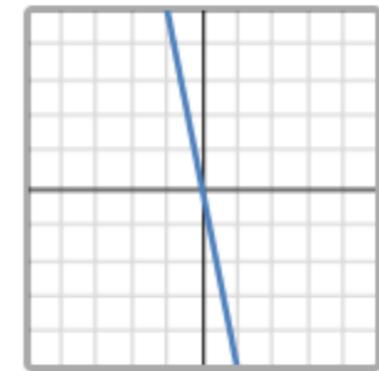
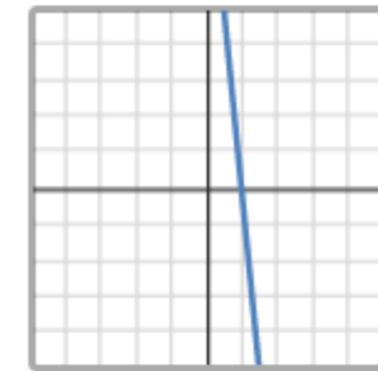
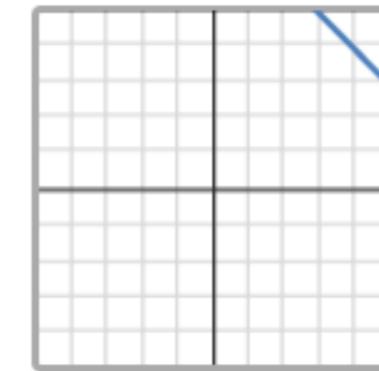
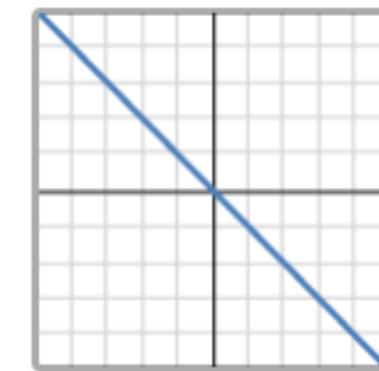
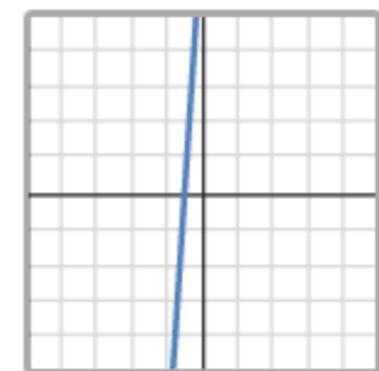
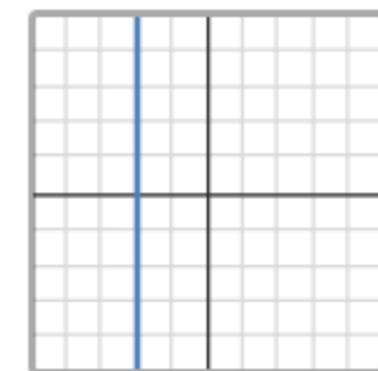
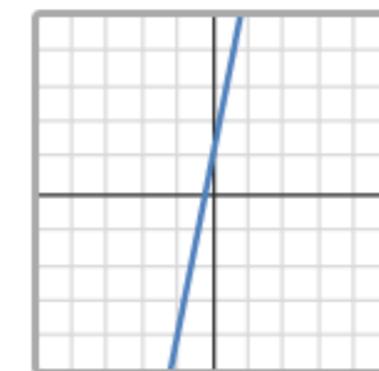
Is your line slanted?

YOUR PARTNER CHOSE

I Don't Know

Select lines to eliminate  
based on your partner's  
answer. Then press the  
button below.

Go on without Eliminating



Questions Asked: 0

Your Partner: Robert Kaplinsky



Your challenge: figure out which graph your partner picked. Ask a "yes" or "no" question about the graph.



Send

# STICKY ATTRIBUTES

SIMPLE

UNEXPECTED

CONCRETE

CREDIBLE

EMOTIONAL

STORIES



5% Charged

9.02

Friday, July 11

9.06

10% Charged

9:10

14% Charged

9:14

19% Charged

9:18

24% Charged

9.22

28% Charged

9:26

33% Charged

9:30

38% Charged

9:34

42% Charged

# THINKING TIME

9:38

47% Charged

9:42

52% Charged

9:46

56% Charged

9:50

61% Charged

9.54

65% Charged

9.58

70% Charged

100.02

74% Charged

100.06

78% Charged

10:10

82% Charged

10:14

84% Charged

10:18

87% Charged

10:22

89% Charged

10:26

90% Charged

10:30

92% Charged

10:34

93% Charged

10:38

94% Charged

10:42

95% Charged

10:46

96% Charged

10:50

97% Charged

10:54

97% Charged

10:58

98% Charged

11:02

98% Charged

11:06

98% Charged

11:10

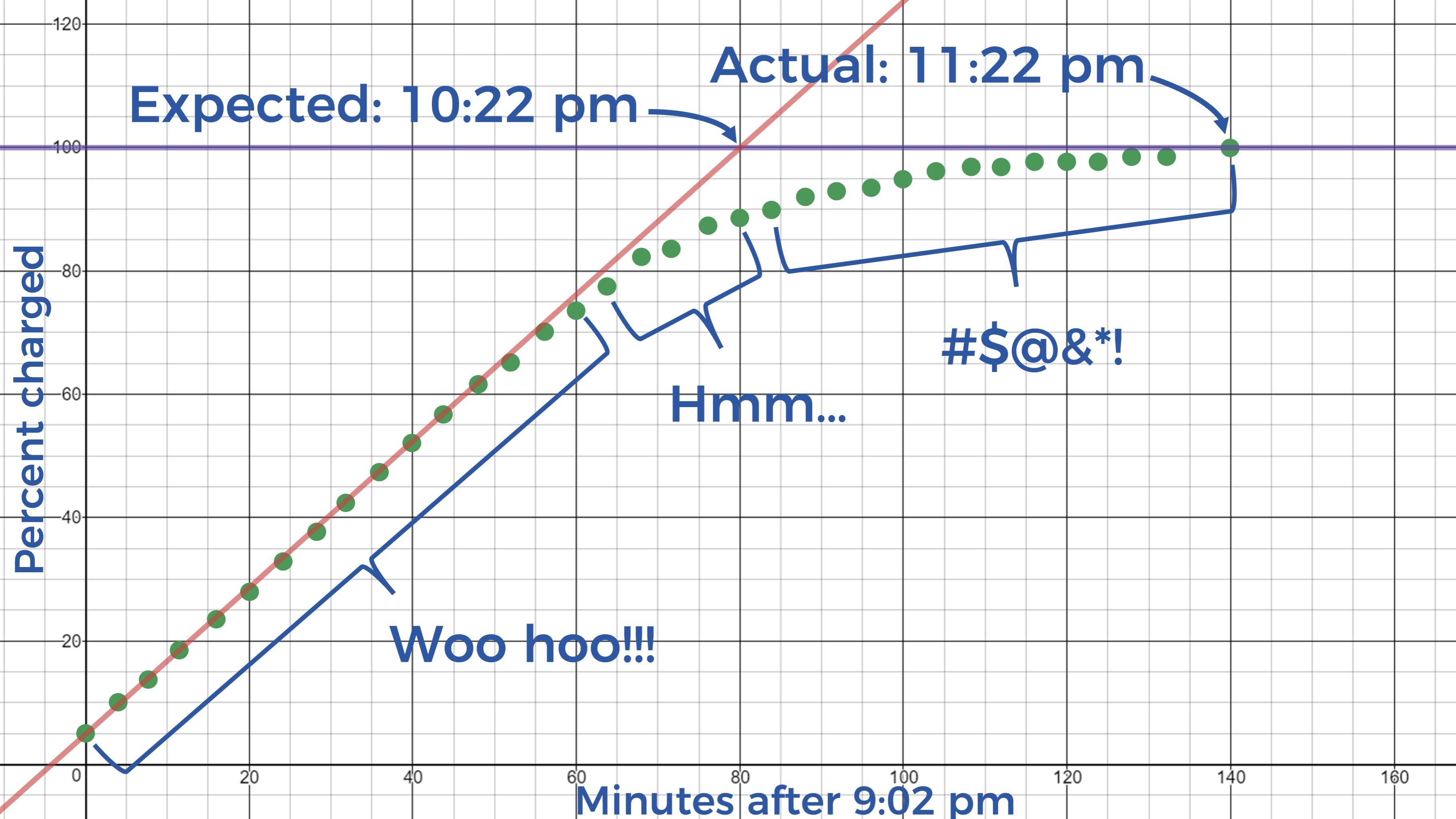
99% Charged

11:11

99% Charged

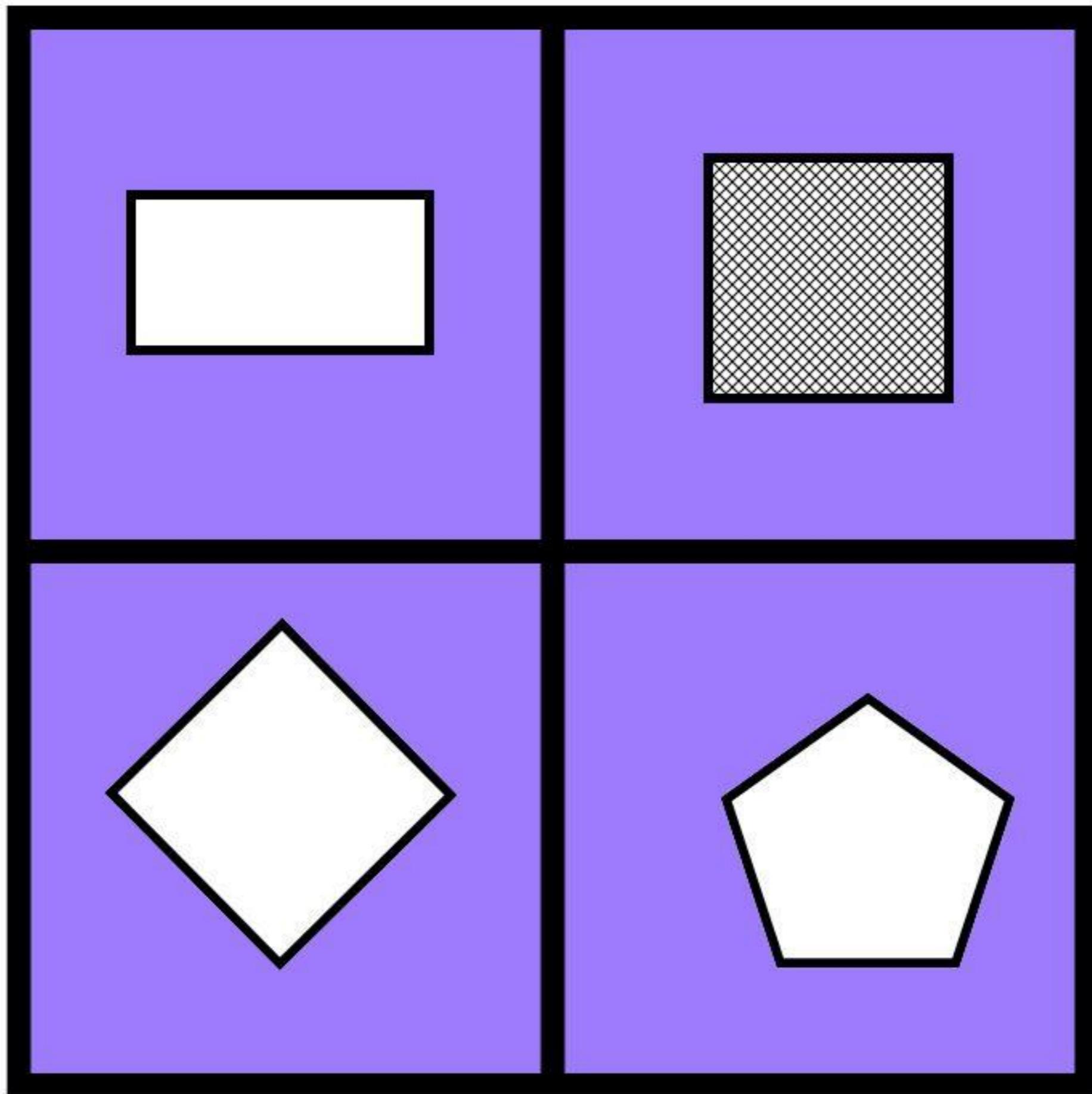
11:22

100% Charged

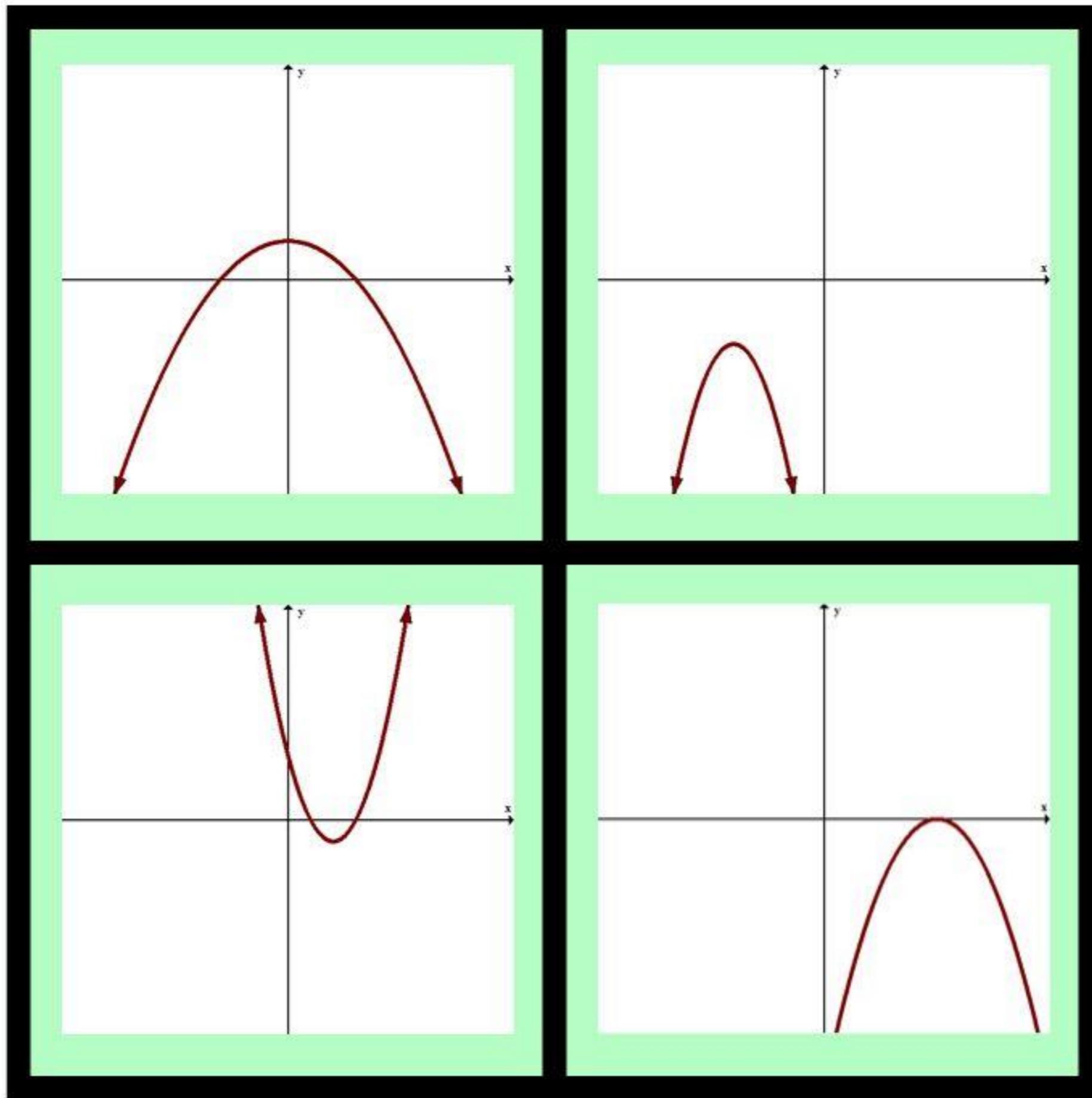


# UNEXPECTED

- PATTERN BREAKING
- COUNTERINTUITIVE
- KNOWLEDGE GAPS
- OPEN MIDDLE







# UNEXPECTED

PATTERN BREAKING

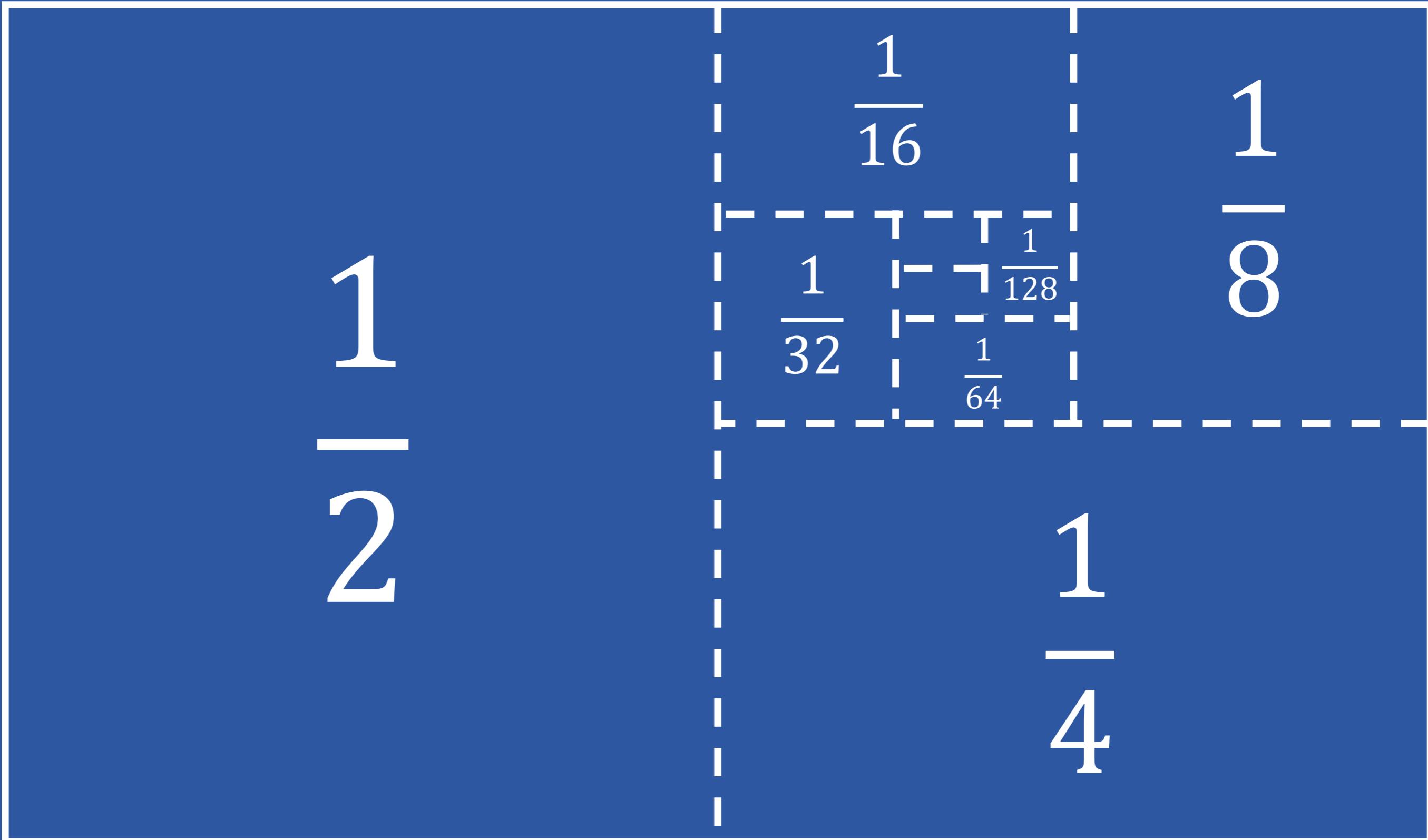
COUNTERINTUITIVE

KNOWLEDGE GAPS

OPEN MIDDLE

SURFACE AREA OF A  
SPHERE FORMULA  
DEMONSTRATION

$$\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \frac{1}{32} + \dots \approx 1$$





Source: Kyle Pearce - [youtube.com/watch?v=Yr53Ji4SZDg](https://youtube.com/watch?v=Yr53Ji4SZDg)

# UNEXPECTED

PATTERN BREAKING

COUNTERINTUITIVE

KNOWLEDGE GAPS

OPEN MIDDLE

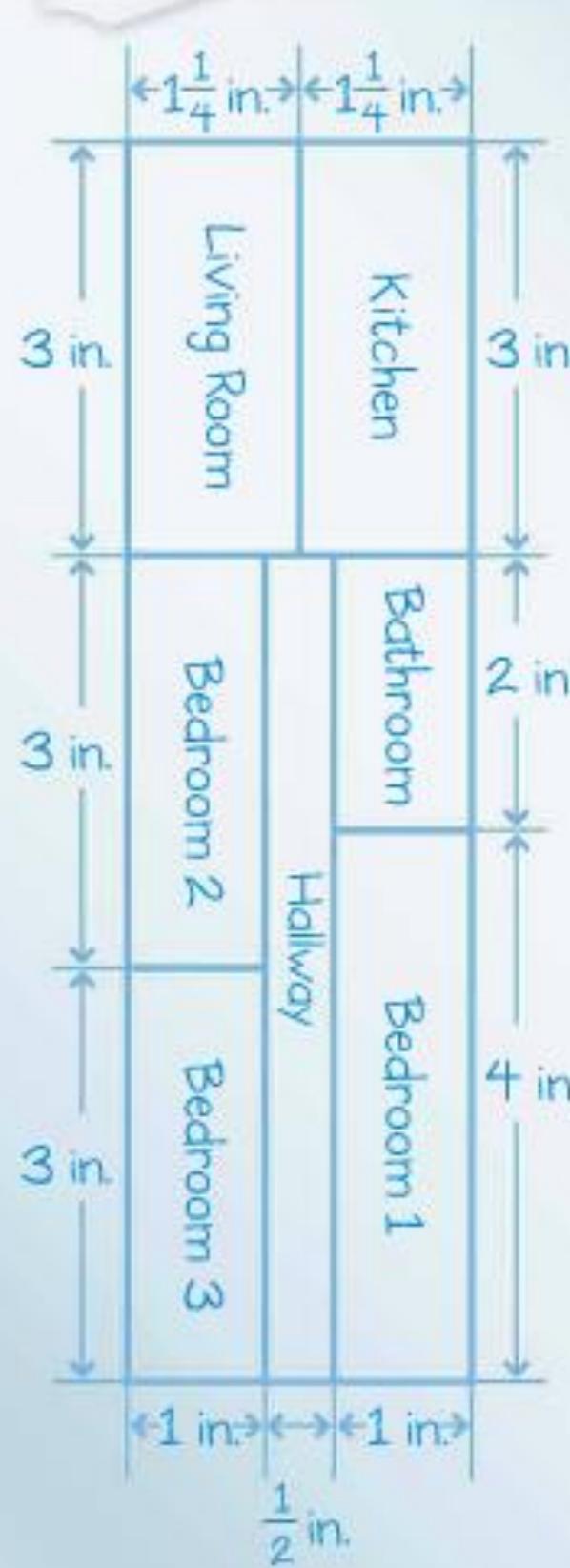


Curiosity... arises from the  
perception of a gap in  
knowledge or  
understanding.

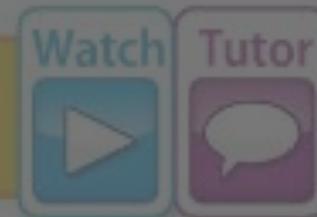
**GEORGE LOEWENSTEIN**



**Source: [robertkaplinsky.com/lessons](http://robertkaplinsky.com/lessons) via Zoolander**



## Example



4. A floor plan for a home is shown at the left where  $\frac{1}{2}$  inch represents 3 feet of the actual home. What is the actual area of bedroom 1?

Length of Bedroom 1.

$$\frac{\frac{1}{2} \text{ in.}}{3 \text{ ft}} = \frac{4 \text{ in.}}{w}$$

$\leftarrow$  floor plan  
 $\leftarrow$  actual

$$\frac{1}{2}w = 12$$

$$w = 24$$

Find cross products.

Divide each side by  $\frac{1}{2}$ .

Width of Bedroom 1.

$$\frac{\frac{1}{2} \text{ in.}}{3 \text{ ft}} = \frac{1 \text{ in.}}{x}$$

$\leftarrow$  floor plan  
 $\leftarrow$  actual

$$\frac{1}{2}x = 3$$

$$x = 6$$

Find cross products.

Divide each side by  $\frac{1}{2}$ .

So, the area of bedroom 1 is  $24 \times 6$  or 144 square feet.

**Get It? Do this problem to find out.**



Source: [robertkaplinsky.com/lessons](http://robertkaplinsky.com/lessons)



Source: [robertkaplinsky.com/lessons](http://robertkaplinsky.com/lessons)



Source: [robertkaplinsky.com/lessons](http://robertkaplinsky.com/lessons)



Source: [robertkaplinsky.com/lessons](http://robertkaplinsky.com/lessons)

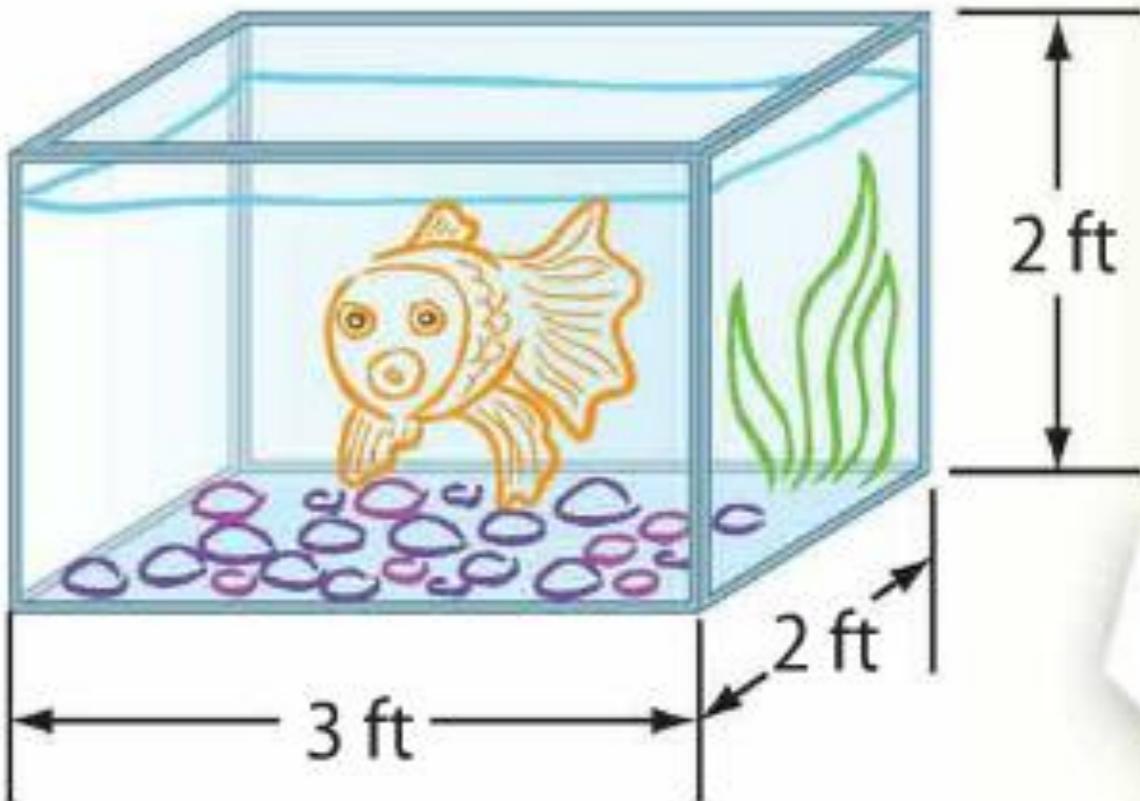


# Real-World Link



**Aquarium** The dimensions of an aquarium are shown.

1. What is the area of the base of the aquarium? \_\_\_\_\_



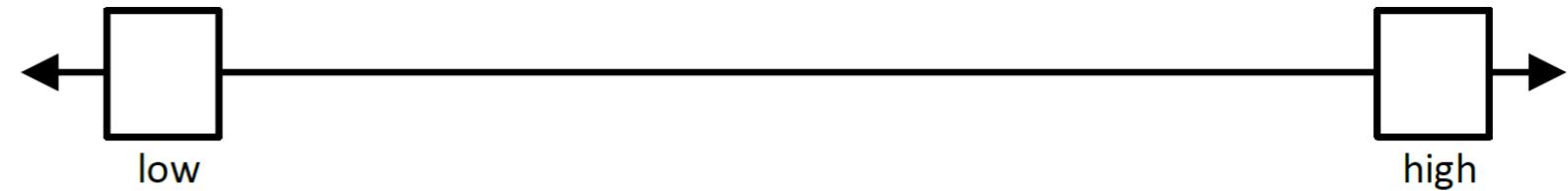
2. What is the height of the aquarium? \_\_\_\_\_

3. Fill in the blanks to find the volume.

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = 12 \text{ ft}^3$$

What problem are you trying to figure out?

What estimates do you have?



Place your estimate on the number line.

What info do you already know about the problem?

What info do you need about the problem?

What is your conclusion? How did you reach that conclusion?

# UNEXPECTED

PATTERN BREAKING

COUNTERINTUITIVE

KNOWLEDGE GAPS

OPEN MIDDLE



Google Maps

My Village to Treasure Chest

Travel 3621 miles, 21 days, 4 hours



Map data ©2017 Google

500 mi

My Village



	Treasure Map	Google Maps
Beginning	Closed	Closed
Middle	Open	Closed
End	Closed	Closed



Using the digits 1-9, at most one time each, fill in the boxes to create a fraction that is as close to one as possible.

$$\frac{\boxed{}}{\boxed{}}$$

Source: Peter Morris on [openmiddle.com](http://openmiddle.com)



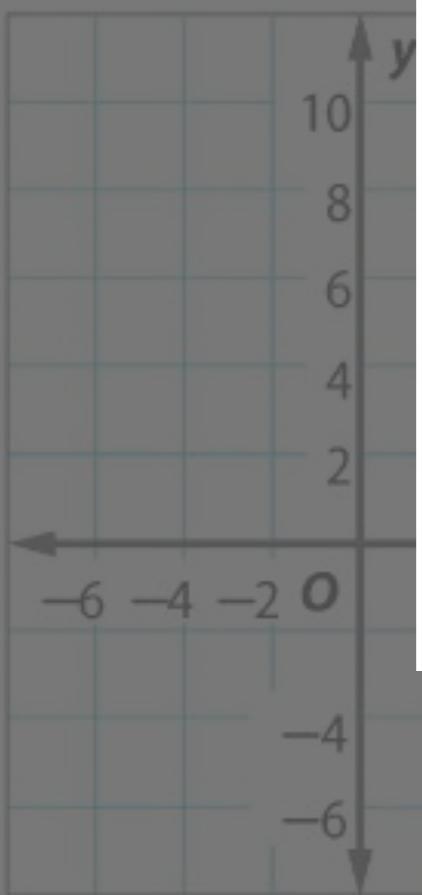
	Open Middle	Closed Middle
Beginning	Closed	Closed
Middle	Open	Closed
End	Closed	Closed

# Independent Practice

Solve each system.

1.  $y = x$   
 $y = 2x - 4$

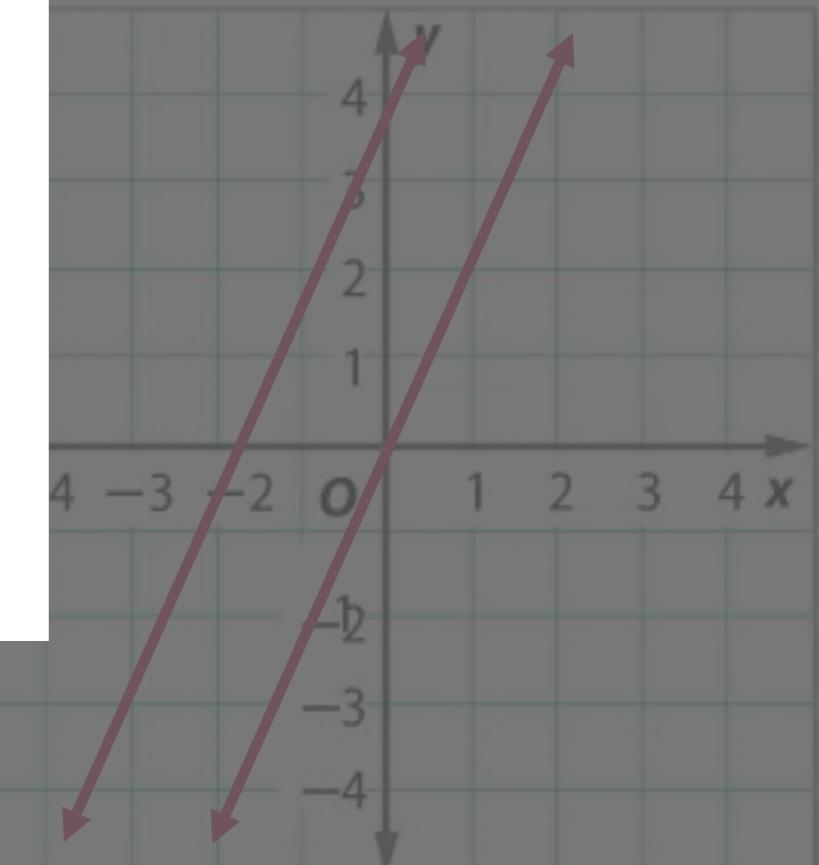
Show your work.



$$0 \neq 4$$

$$y = 2x$$

$$y - 2x = 4$$
$$y = 2x$$



# UNEXPECTED

PATTERN BREAKING

COUNTERINTUITIVE

KNOWLEDGE GAPS

OPEN MIDDLE

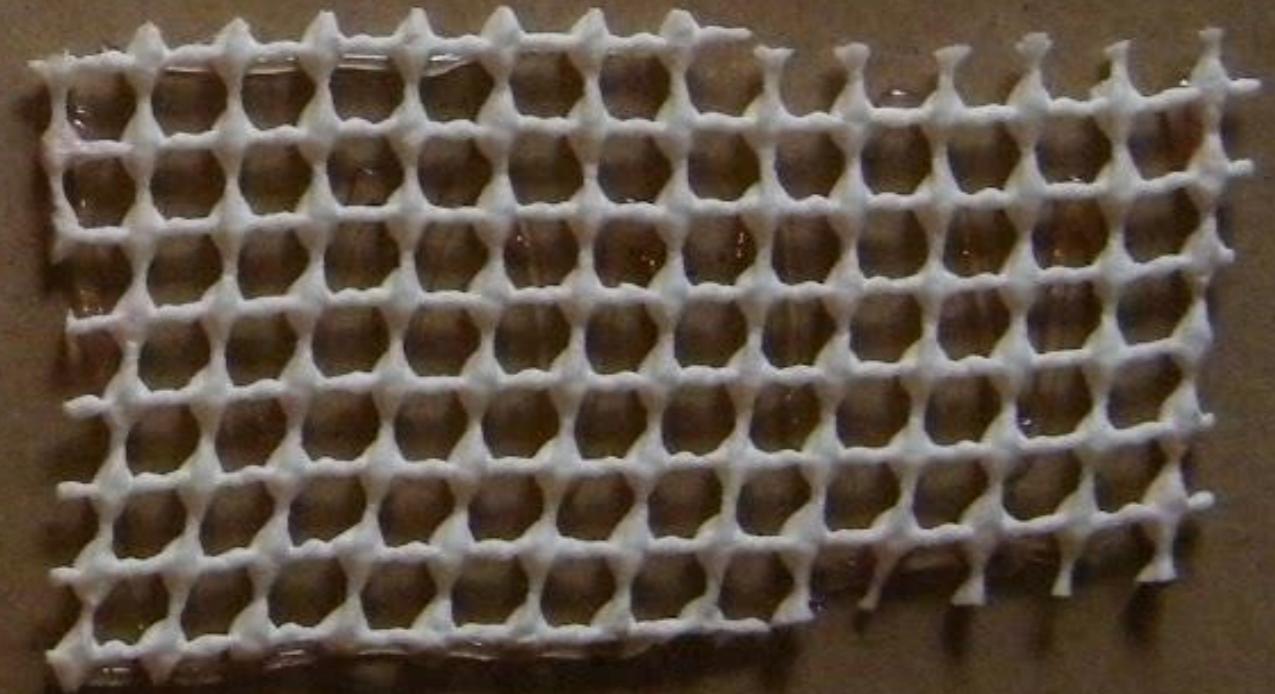
# STICKY ATTRIBUTES

- SIMPLE
- UNEXPECTED
- CONCRETE
- CREDIBLE
- EMOTIONAL
- STORIES

Soft



bumpy



**Yellow**  
the fragrant  
flowers,

**Yellow** the  
stinky socks,

Scratch  
and Sniff!

Scratch  
and Sniff!

**Source: Color Dog**



NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

PERIOD: \_\_\_\_\_

## Lesson 7 Skills Practice

*Objective: Divide Decimals by Decimals*

Divide.

1.  $4.86 \div 0.2$

7.  $2.25 \div 0.15$

13.  $7.52 \div 0.74$

2.  $628.2 \div 34.9$

8.  $421.6 \div 0.4$

14.  $0.105 \div 0.6$



# Fans stream Nelly to help him pay off \$2.4 million debt

by Lisa Respers France @CNNMoney

🕒 September 13, 2016: 2:47 PM ET



UNIVERSAL MUSIC GROUP  
NELLYVEVO

- How many \$0.006 are there in \$2,400,000?
- How many 6 are there in 24?

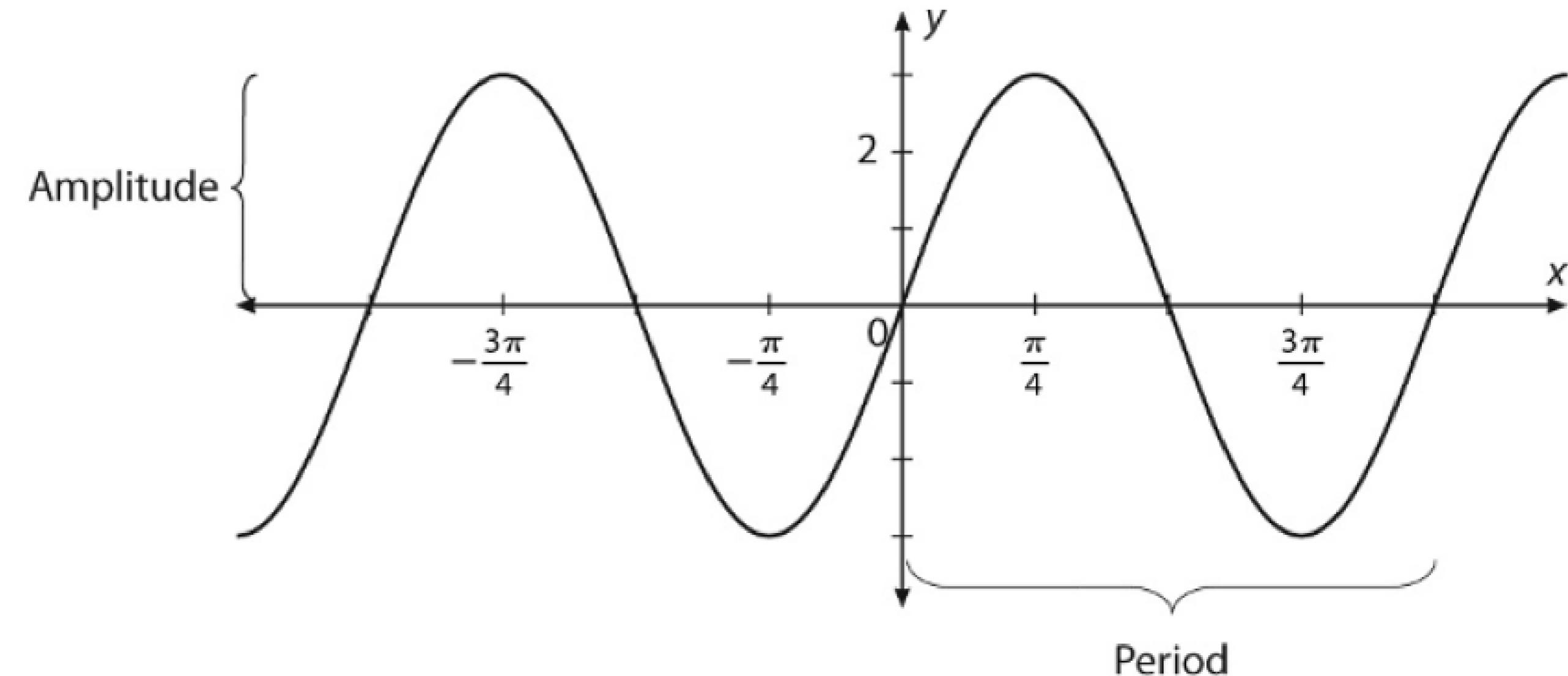
## Reteach

For a sine function,  $y = a \sin\left(\frac{1}{b}x\right)$ .

$$\text{Amplitude} = |a|$$

$$\text{Period} = 2\pi \cdot b$$

If  $a < 0$ , the graph is reflected across the  $x$ -axis.



**Example** Write the function shown in the graph above.

A photograph of a person sitting on a red slide at a playground. The person is wearing a red long-sleeved shirt and yellow and red patterned shorts. They are sitting with their legs bent and feet flat against the slide's surface. The slide is red with a black metal frame. In the background, there is a green metal jungle gym and a paved path. The foreground is dark, textured ground.

distance from camera

adam poetzel

Source: graphingstories.com


$$P = 2L + 2R$$


$$A = \pi r^2$$

$$A = \frac{1}{2}bh$$

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

$$\log_b(x^y) = y \cdot \log_b(x)$$

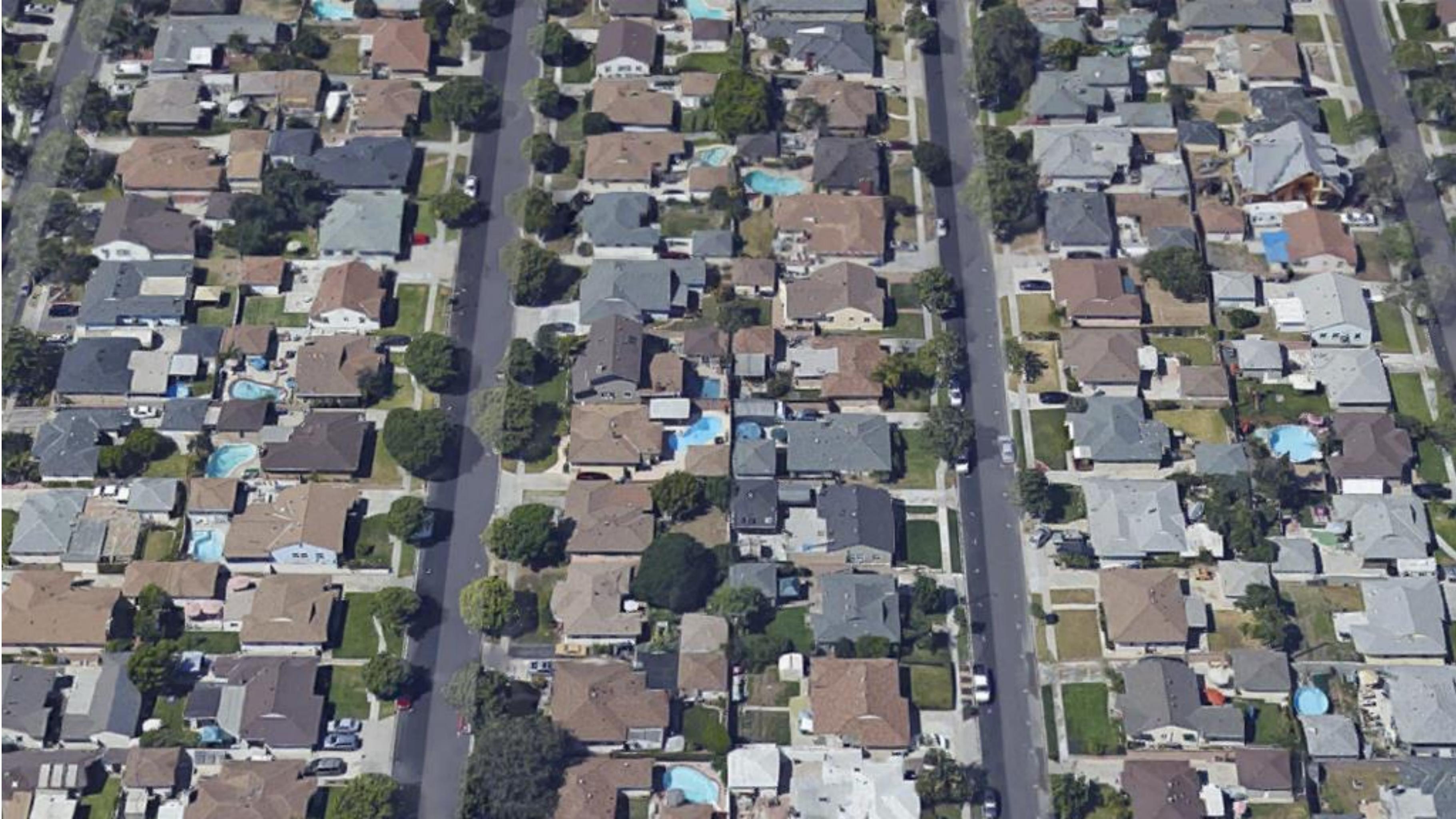
$$e^{i\pi} + 1 = 0$$


$$a^2 + b^2 = c^2$$



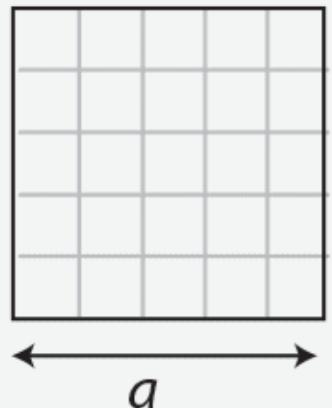
“Wait, was it a negative  
plus a negative or a  
negative times a negative  
that equals a positive.”

**TOO MANY STUDENTS**



## Area

Two-dimensional plane shapes



## Area

The measure of how many squares will fit into a shape.

Units<sup>2</sup>

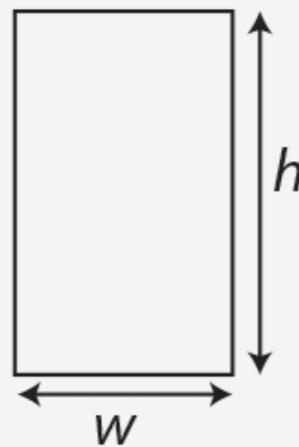
$$\text{Area} = a^2 \text{ or } a \times a$$

Example:

$$a = 5\text{cm}$$

$$\text{Area} = 5^2 = 25\text{cm}^2$$

## Rectangle



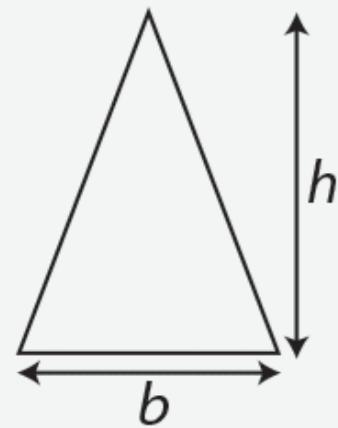
$$\text{Area} = w \times h$$

Example:

$$\begin{aligned} w &= \text{width} = 10\text{cm} \\ h &= \text{height} = 20\text{cm} \end{aligned}$$

$$\text{Area} = 10 \times 20 = 200\text{cm}^2$$

## Triangle



$$\text{Area} = b \times h \times 0.5$$

Example:

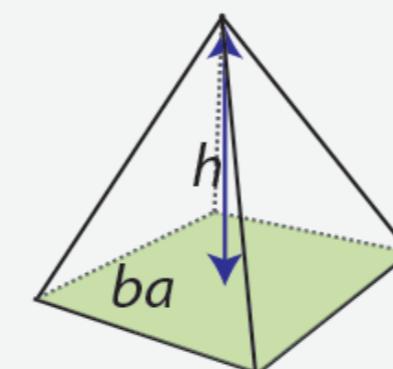
$$b = \text{base} = 20\text{cm}$$

$$h = \text{vertical height} = 15\text{cm}$$

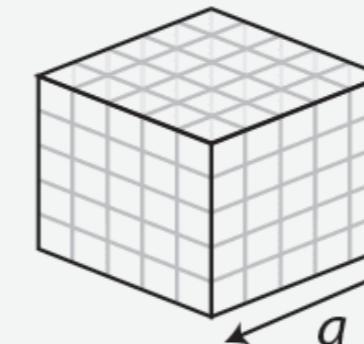
$$\text{Area} = 20 \times 15 \times 0.5 = 150\text{cm}^2$$

$$\text{Area} = n \times s \times a \times 0.5$$

## Pyramid



## Cube



## Surface Area

The measure of the area of all outward facing sides.

Units<sup>2</sup>

$$\text{Surface Area} = 6 \times a^2$$

Example:

$$a = 5\text{cm}$$

$$\text{Surface Area} = 150\text{cm}^2$$

$$\text{Surface Area} = 2 \times ba + la$$

Example:

$$ba = \text{base area} = 20\text{cm}^2$$

$$la = \text{lateral area (all sides)} = 60\text{cm}^2$$

$$\text{Surface area} =$$

$$2 \times 20 + 60 = 100\text{cm}^2$$

$$\text{Surface Area} = ba + la$$

Example:

$$ba = \text{base area} = 16\text{cm}^2$$

$$la = \text{lateral area (all sides)} = 60\text{cm}^2$$

$$\text{Surface area} = 16 + 60 = 76\text{cm}^2$$

## Volume

The measure of how many cubes will fit into a shape.

Units<sup>3</sup>

$$\text{Volume} = a^3 \text{ or } a \times a \times a$$

Example:

$$a = 5\text{cm.}$$

$$\text{Volume} = 125\text{cm}^3$$

$$\text{Volume} = ba \times h$$

Example:

$$ba = \text{base area} = 20\text{cm}^2$$

$$h = \text{height} = 5\text{cm}$$

$$\text{Volume} = 20 \times 5 = 100\text{cm}^3$$

$$\text{Volume} = ba \times h \times 1/3$$

Example:

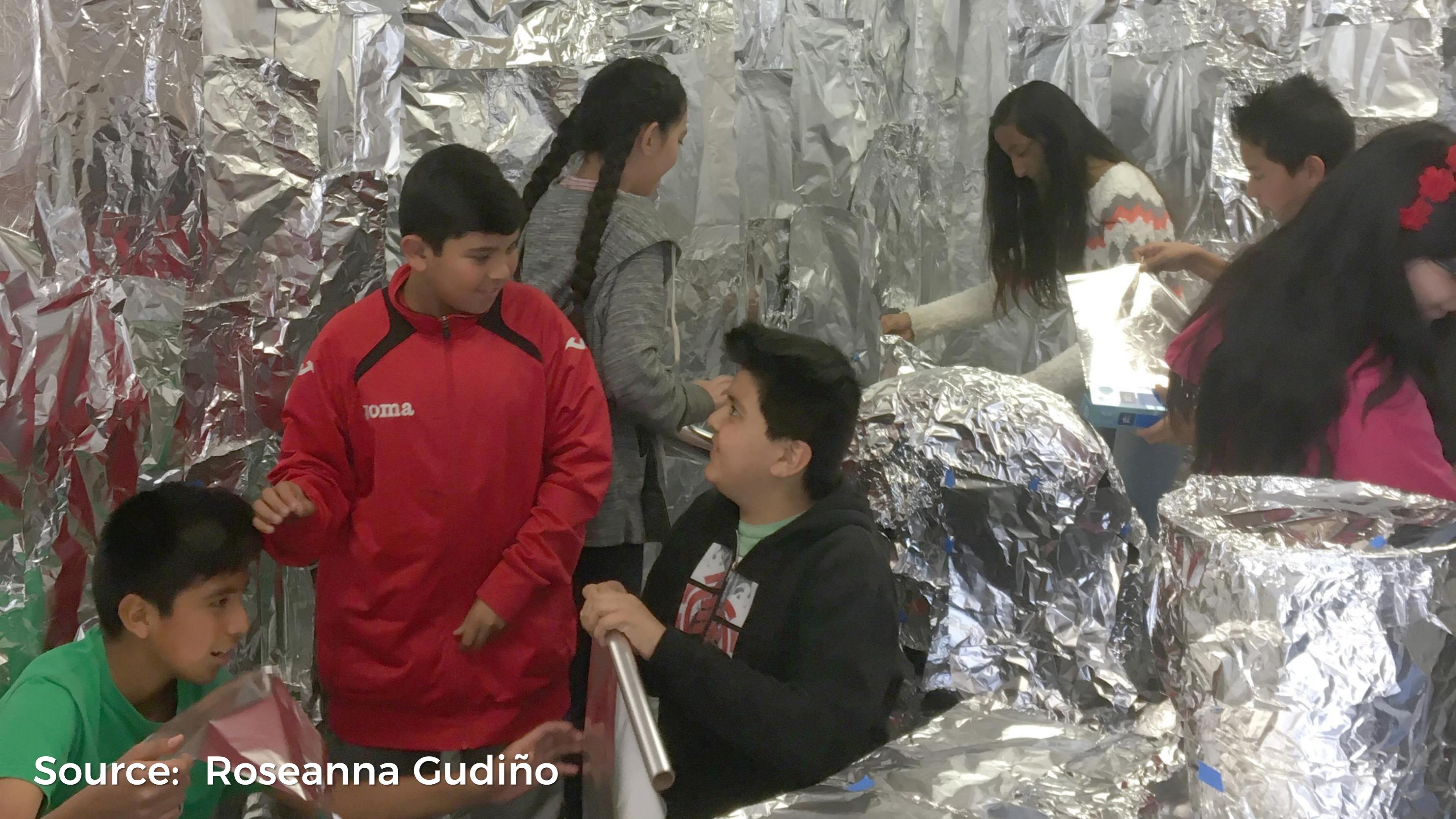
$$ba = \text{base area} = 16\text{cm}^2$$

$$h = \text{height} = 9\text{cm}$$

$$\text{Volume} = 16 \times 9 \times 1/3 = 48\text{cm}^3$$



Source: [robertkaplinsky.com/lessons](http://robertkaplinsky.com/lessons)



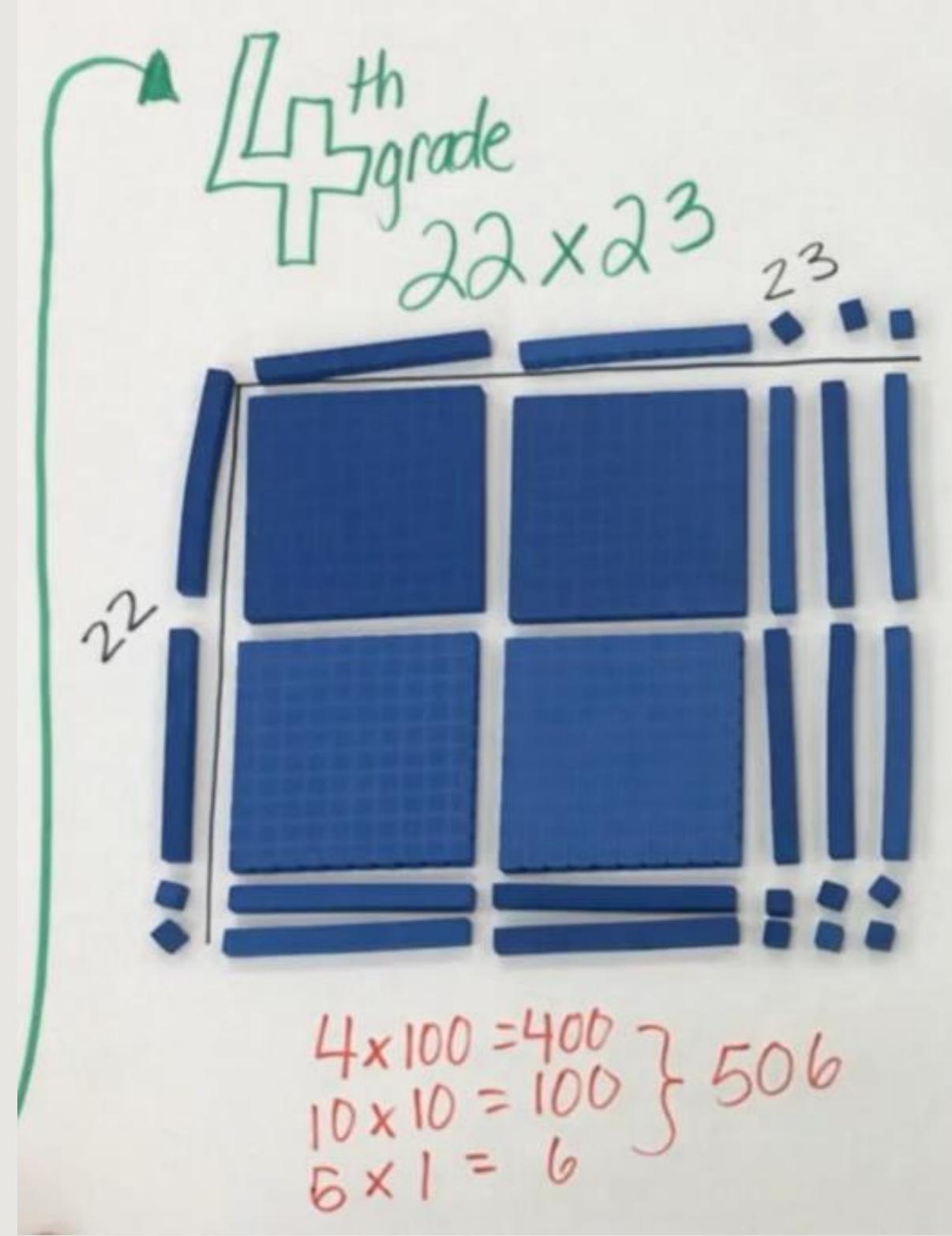
Source: Roseanna Gudiño



## The progression of multiplication

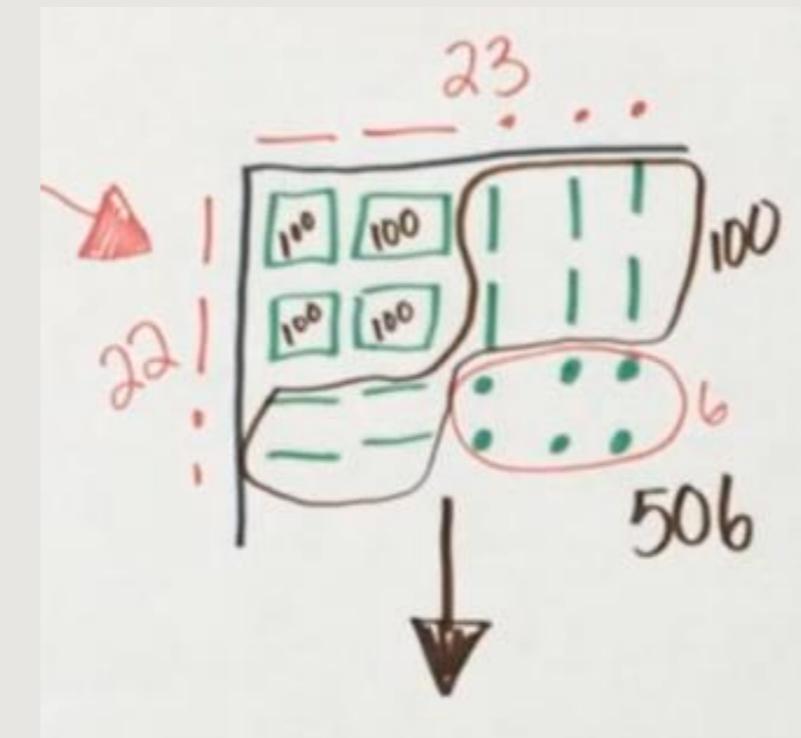


Source: [gfletchy.com/progression-videos](http://gfletchy.com/progression-videos)

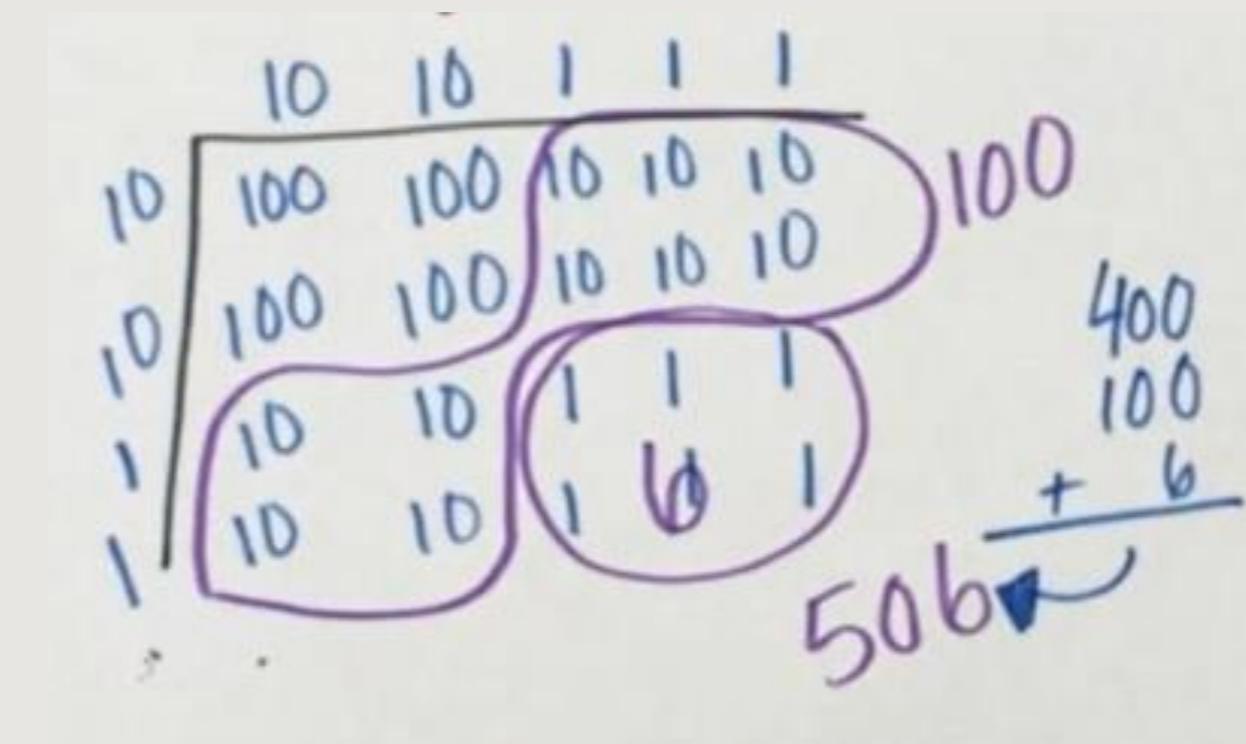


# Concrete

**Source: gfletchy.com**



# Representational



# Abstract

# MY OLD METHODS

$$4(x + 3)$$


$$4(x) + 4(3)$$

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

F  $x(x)$

0  $x(-1)$

I  $3(x)$

L  $3(-1)$

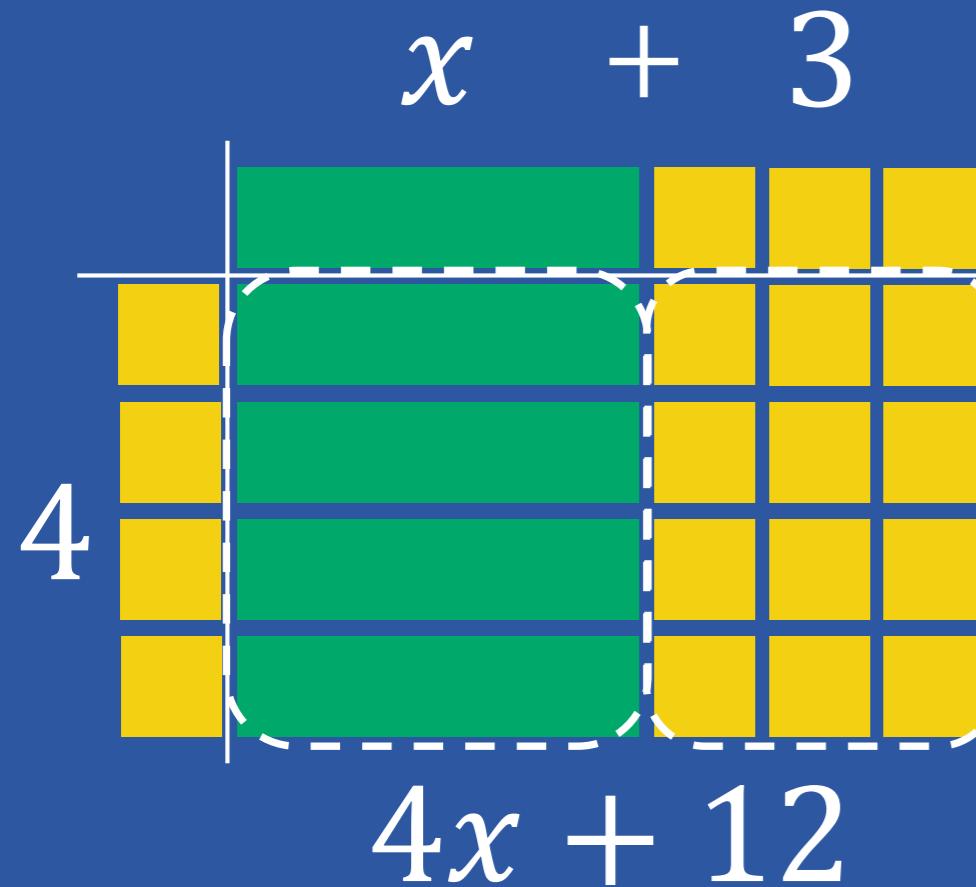
$$= x^2 - x + 3x - 3$$

$$= x^2 + 2x - 3$$

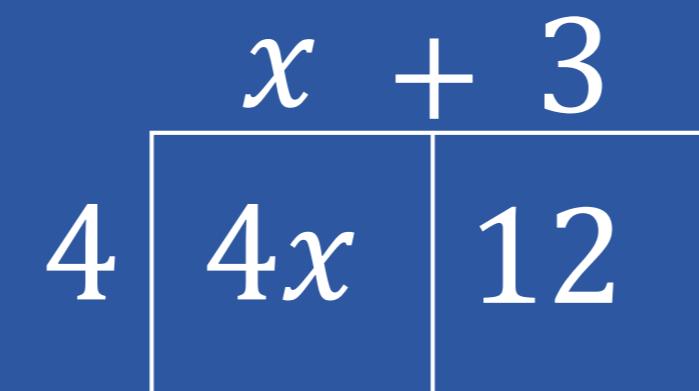
# DISTRIBUTIVE PROPERTY

$$4(x + 3)$$

Concrete



Representational



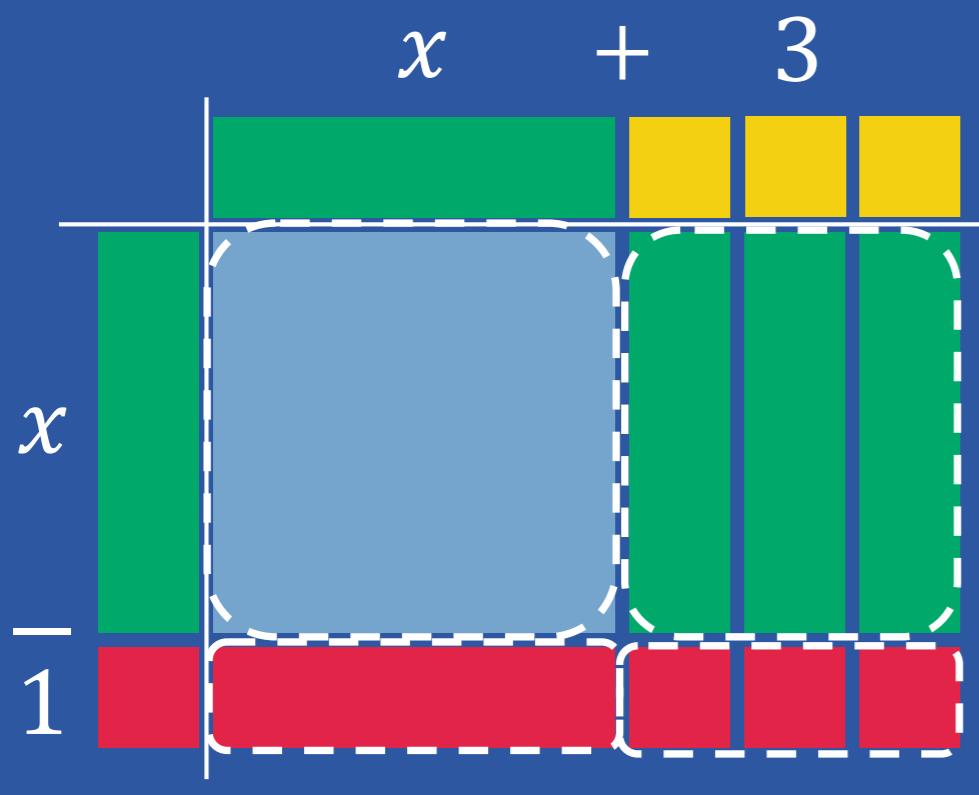
Abstract

$$\begin{aligned} 4(x + 3) &= 4(x) + 4(3) \\ &= 4x + 12 \end{aligned}$$

# BINOMIAL MULTIPLICATION

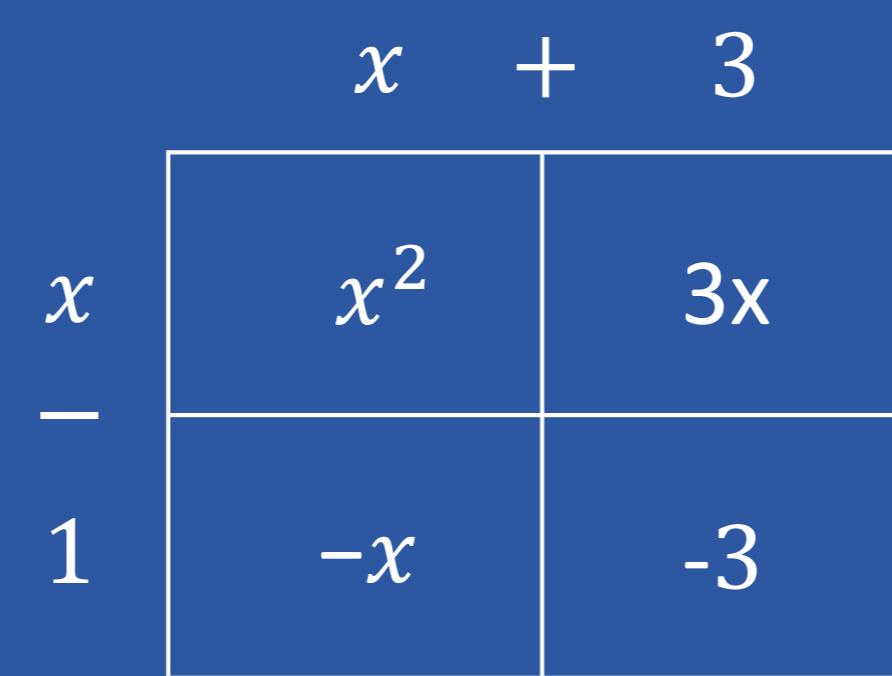
$$(x + 3)(x - 1)$$

Concrete



$$x^2 + 2x - 3$$

Representational



$$x^2 - x + 3x - 3$$

$$x^2 + 2x - 3$$

Abstract

$$\begin{aligned}(x + 3)(x - 1) \\ &= x^2 - x + 3x - 3 \\ &= x^2 + 2x - 3\end{aligned}$$

# STICKY ATTRIBUTES

SIMPLE

UNEXPECTED

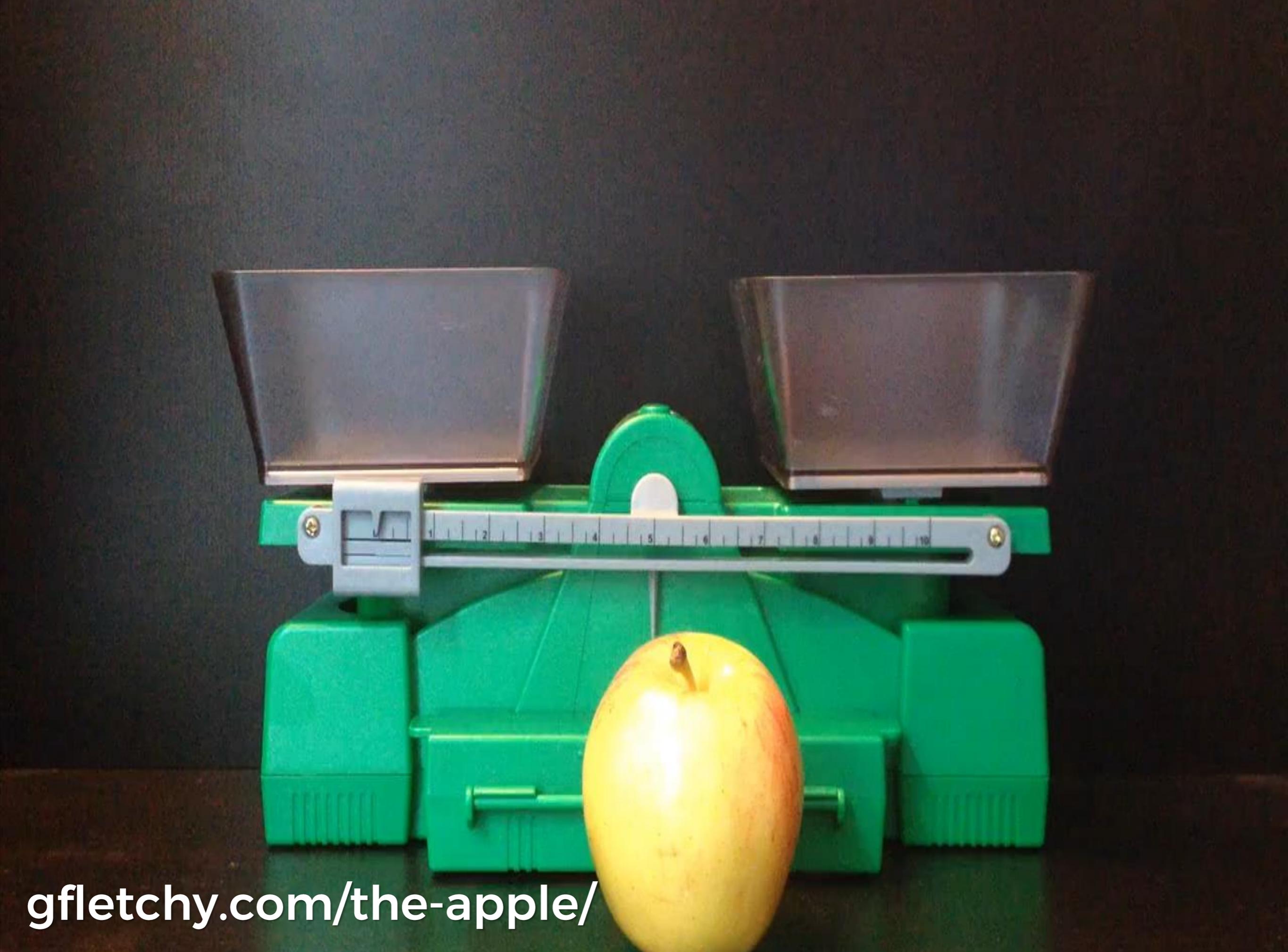
CONCRETE

CREDIBLE

EMOTIONAL

STORIES

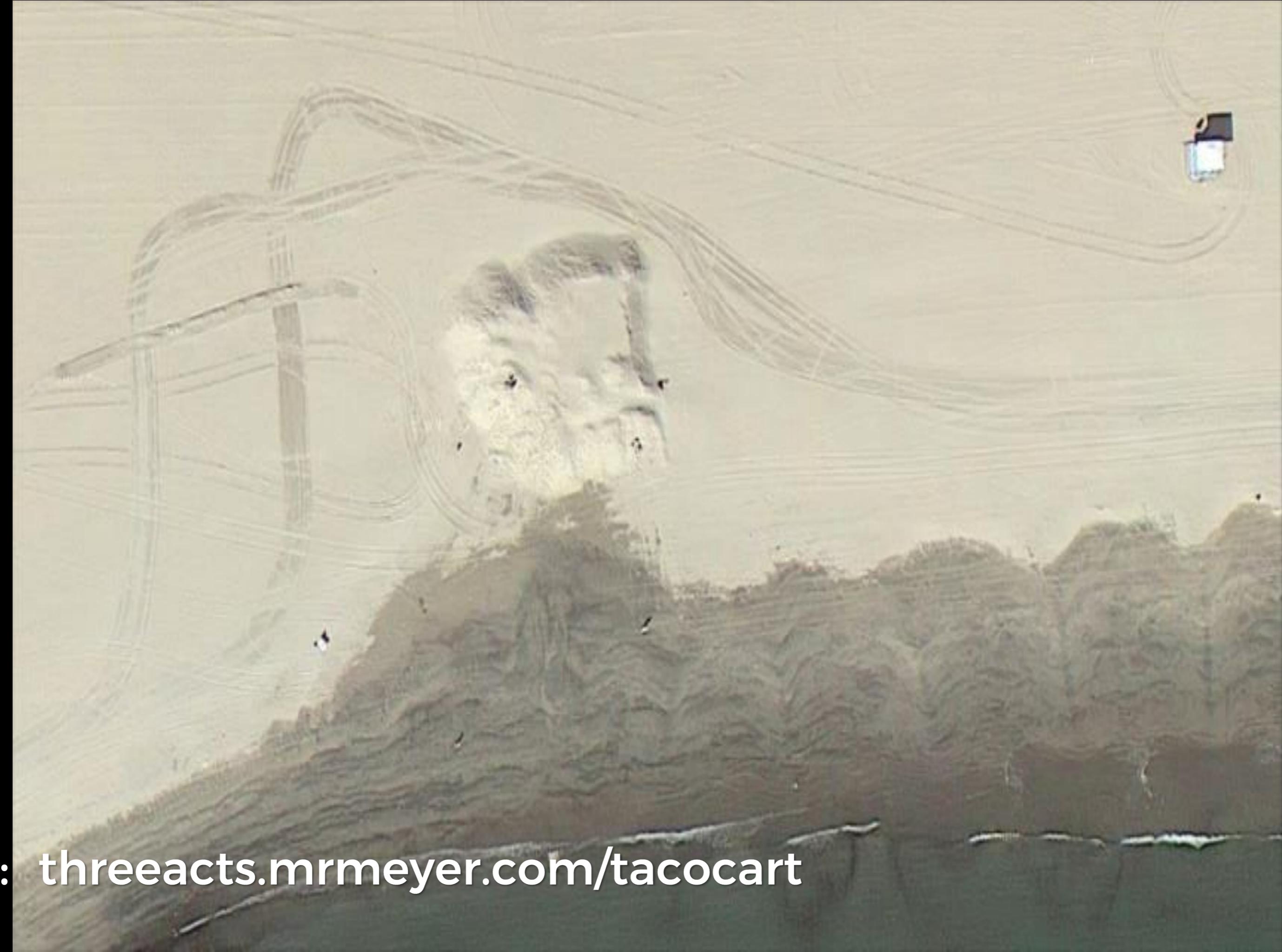




Source: [gfletchy.com/the-apple/](http://gfletchy.com/the-apple/)

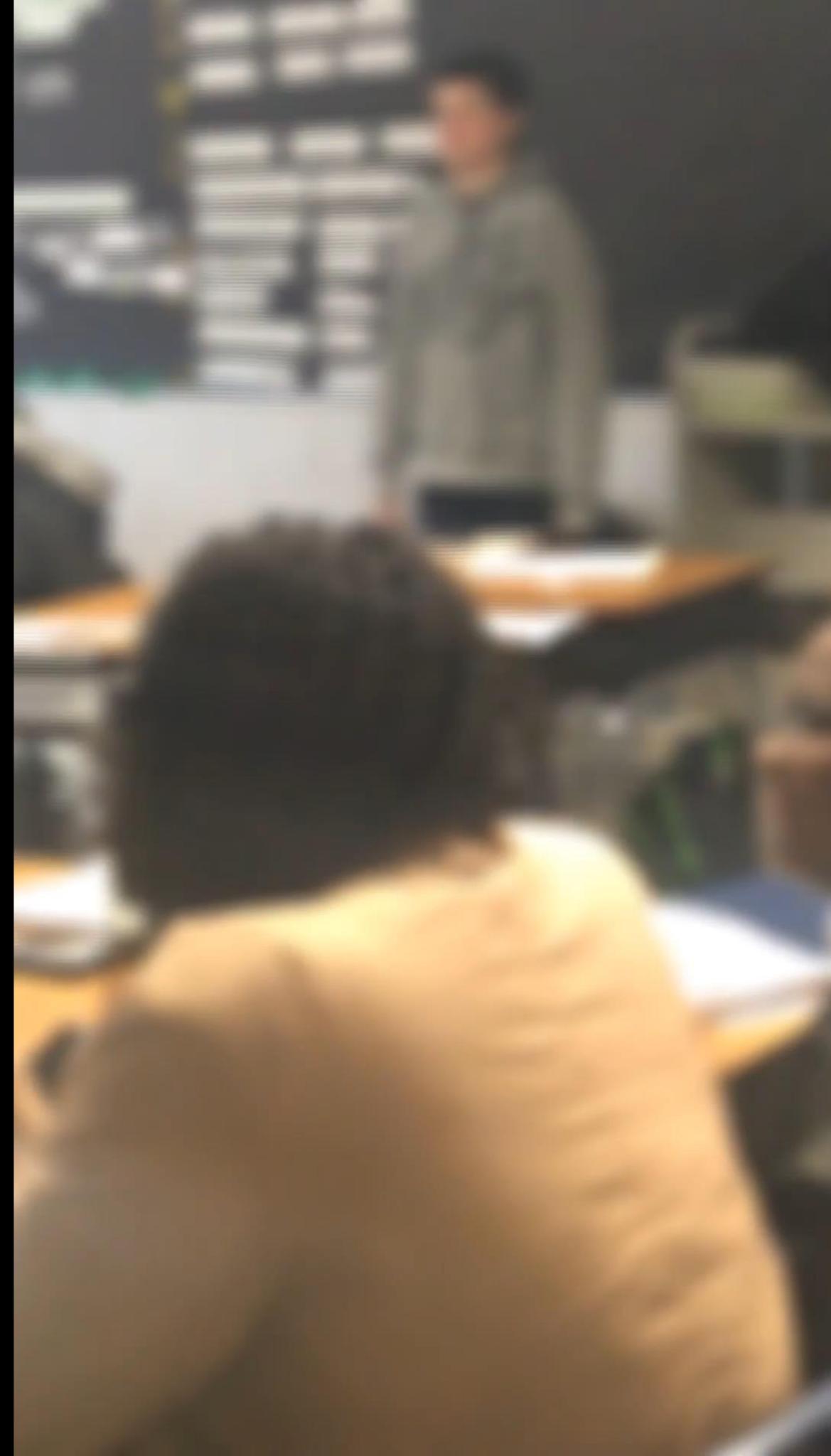


Source: JJ Martinez



Source: [threeacts.mrmeyer.com/tacocart](http://threeacts.mrmeyer.com/tacocart)

**Source:**  
**Jenise Sexton**



STATE CHAMPIONS  
CLASS D  
GIRLS CROSS COUNTRY  
1979

STATE CHAMPIONS  
CLASS D  
GIRLS CROSS COUNTRY  
1980

STATE CHAMPIONS  
CLASS D  
GIRLS TRACK  
1980

STATE CHAMPIONS  
CLASS D  
BOYS CROSS COUNTRY  
1995

STATE CHAMPIONS  
CLASS D  
GOLF  
1994

WOMEN'S  
CROSS COUNTRY  
STATE CHAMPIONS  
2001

WOMEN'S  
SOCCER  
STATE CHAMPIONS  
2002

STATE CHAMPIONS  
2003

MEN'S  
TENNIS  
STATE CHAMPIONS  
2004

MEN'S  
TENNIS  
STATE CHAMPIONS  
2007

MEN'S  
TENNIS  
STATE CHAMPIONS  
2008

WOMEN'S  
TENNIS  
STATE CHAMPIONS  
2009

MEN'S  
TENNIS  
STATE CHAMPIONS  
2009

MEN'S  
TENNIS  
STATE CHAMPIONS  
2010

MEN'S  
TENNIS  
STATE CHAMPIONS  
2011

MEN'S CROSS COUNTRY  
STATE CHAMPIONS

WOMEN'S CROSS COUNTRY  
STATE CHAMPIONS

SOFTBALL

MEN'S SOCCER

WOMEN'S GOLF



Source: Tom Ward



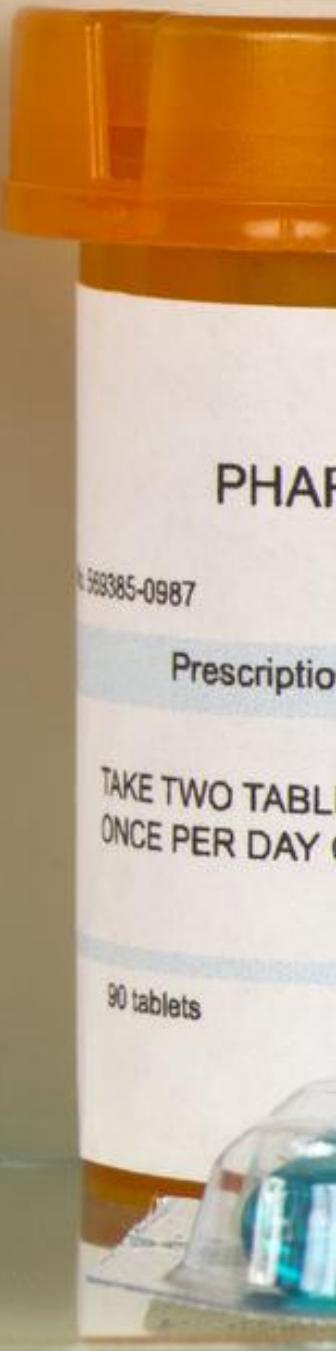
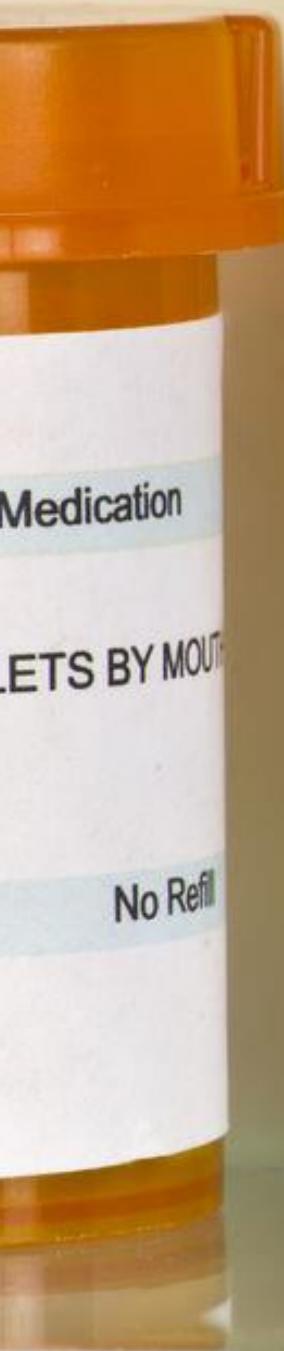
Source: Tom Ward



Source: [fawnguyen.com/barbie-bungee](http://fawnguyen.com/barbie-bungee)



**Source:**  
**Fawn Nguyen**





# Act 1 Engaging Opener

## Act 2 Get Info. Solve Problem.

## Act 3 Big Reveal

# STICKY ATTRIBUTES

- SIMPLE
- UNEXPECTED
- CONCRETE
- CREDIBLE
- EMOTIONAL
- STORIES







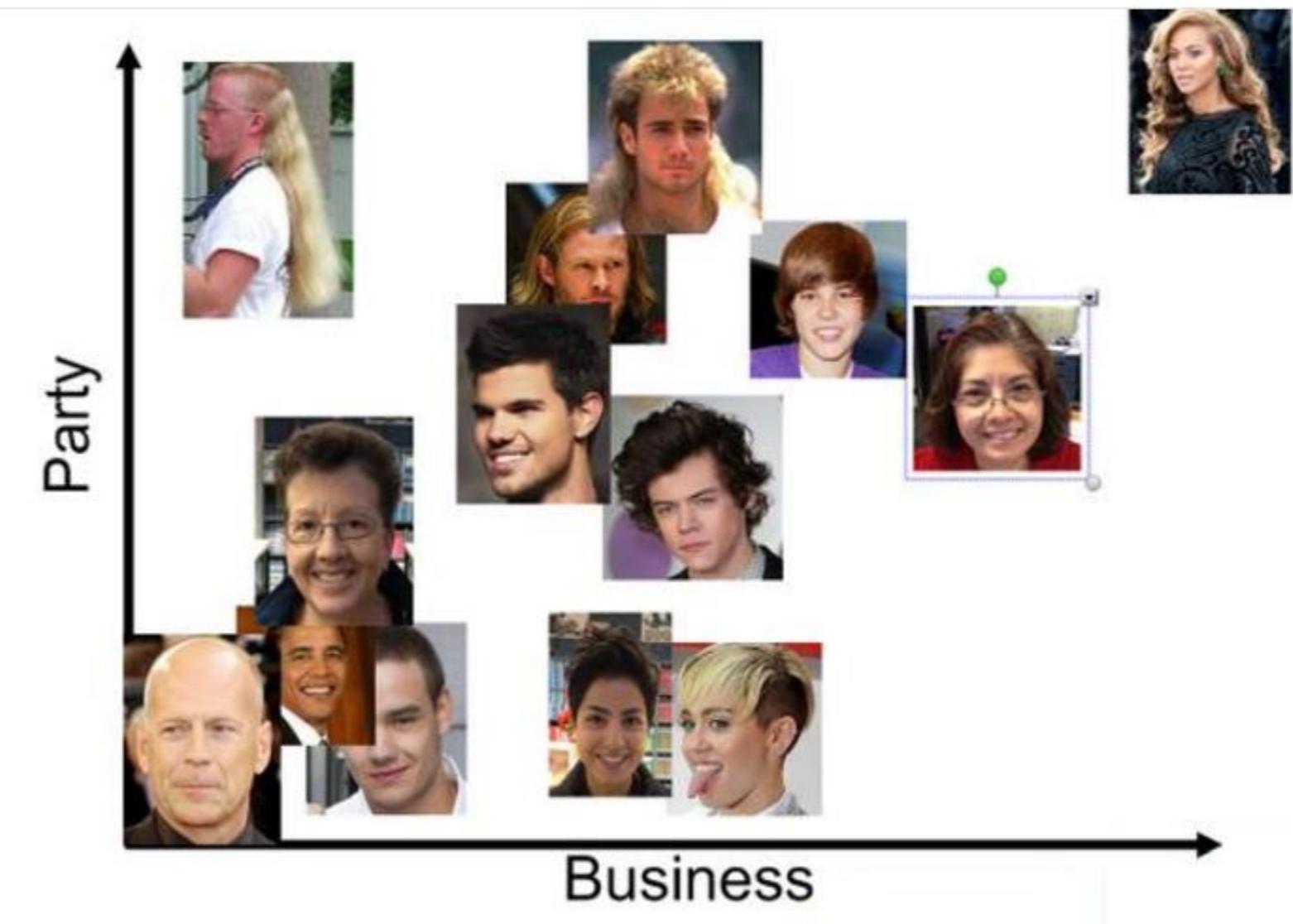
Source: [mrvaudrey.com](http://mrvaudrey.com)



**Matt Vaudrey**  
@MrVaudrey

Following

Things I never thought I'd say: "So you're saying that Thor has less party than Justin Bieber, but more than Obama?"



RETWEETS LIKES

4

7



# ARIZONA

	7	6	3	2	1	9	8	5	4	0
2	Vila	ROB	SHEP	ROB	SHOP CO.	PAPA	K+R	Vila	ROB	DB
7	DB	DB	DB	K+R	ROB	BILL	SHOP CO.	SHEP	SHOP CO.	DB
8	K+R	ROB	KB	CHRIS C	PAPA	RICK	ROB	SHOP CO.	ROB	KB
3	ROB	SHEP	ROB	DB	BILL	CHRIS C	CHRIS LOCK	Vila	SHEP	SHOP CO.
4	SHOP CO.	DB	SHEP	RICK	ROB	BILL	THE Schwartz	THE Schwartz	THE Schwartz	THE Schwartz
9	PAPA	ROB	CHRIS C	CHRIS C	CHRIS C	KB	THE Schwartz	DB	BILL	SHEP
0	DB	SHEP CO	K+R	RICK	DB	ROB	DB	Vila	RICK	Vila
5	BILL	DB	ROB	ROB	Vila	Vila	ROB	KB	ROB	K+R
1	ROB	...	...	...	...	...	...	...	...	...

# GREEN BAY

## • PAYOUTS •

1ST QUARTER \$25

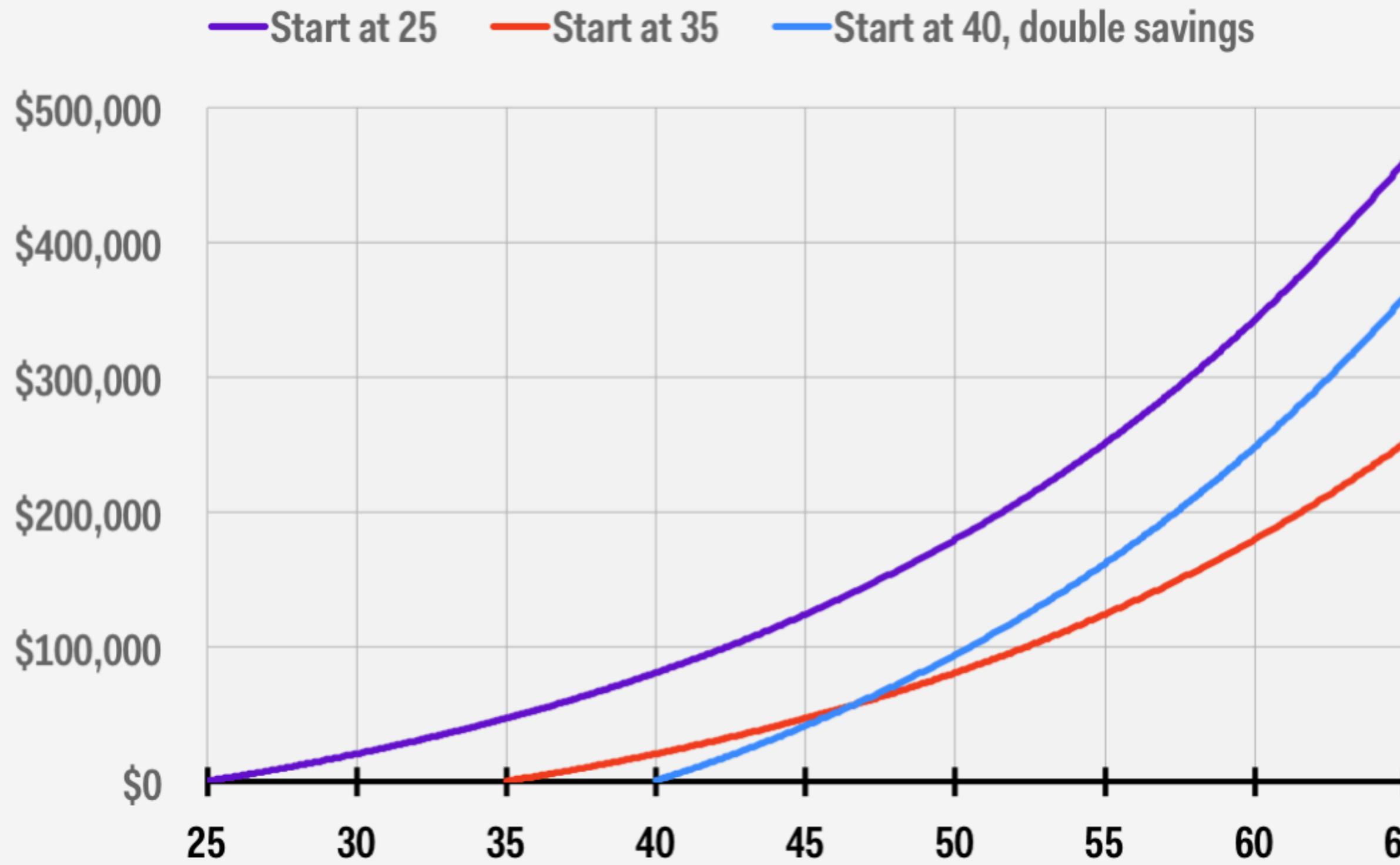
HALFTIME \$50

3RD QUARTER \$25

FINAL \$100

\$2 SQUARES

# Start saving in your 20s





Source: [robertkaplinsky.com/lessons](http://robertkaplinsky.com/lessons)



tangible > magnitude

# STICKY ATTRIBUTES

- SIMPLE
- UNEXPECTED
- CONCRETE
- CREDIBLE
- EMOTIONAL
- STORIES

11:35 94



Source: [robertkaplinsky.com/lessons](http://robertkaplinsky.com/lessons)

**20. Crime** Two men used ropes made from sheets to escape from a tall prison in Chicago. If they needed to make a total of 150 feet of rope and each sheet made 6 feet of rope, how many sheets did they need?



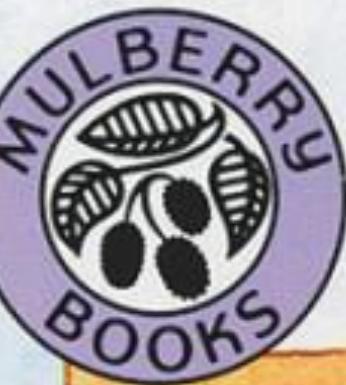


If you were as strong as an **ANT** . . .

Source: If You Hopped Like A Frog by David M. Schwartz

# The Doorbell Rang

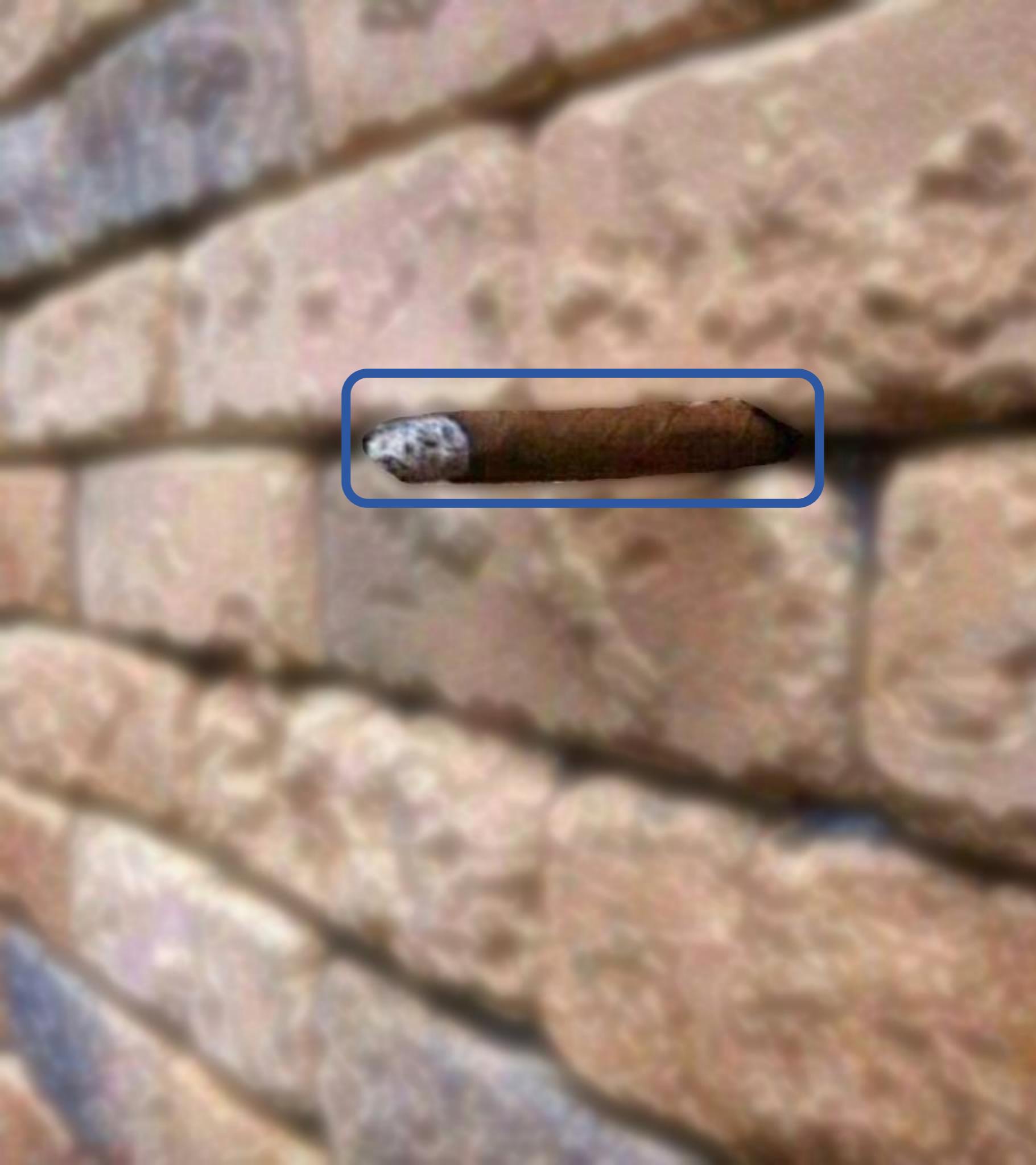
by Pat Hutchins



**DO YOU  
SEE IT?**

Via: Sara VanDerWerf

[RobertKaplinsky.com](http://RobertKaplinsky.com)





# IMPORTANCE OF CONTEXT

- Play four songs
- Tapped out
- Write down song names
- Share answers with neighbors
- Listen again with song names



# SONG #1



# SONG #2



# SONG #3



# SONG #4

# SONG #1

# Itsy Bitsy Spider

**SONG #2**

wheels On  
The Bus

**SONG #3**

**Row Row Row  
Your Boat**

**SONG #4**

**Take Me Out To  
The Ballgame**



**Robert Kaplinsky**

@robertkaplinsky



Random favor: please listen to me tapping out 4 songs and try to guess the name. Should take < 2 min. It's not easy!

Recognizing Tapped Songs

Please listen to each of the four songs, type in the name of the song, and the click submit. You may have no clue about what the song is called. If that happens, just write something like, "I don't know".

Song #1

Play 0:00 The browser does not currently support video for this plugin.  
Recognize any of the video formats available.  
CHANNEL: MUSIC TRIVIA  
SUBMISSIONS: 10000

ame of Song #1?

### Recognizing Tapped Songs

Please listen to each of the four songs, type in the name of the song, and the click submit. You may have no clue about what the song is called. If that happens, just write something like, "I don't...

[docs.google.com](https://docs.google.com)

---

RETWEET

1



2:47 PM - 13 Jun 2017

# TAKEAWAYS (PART ONE)

- Of 192 people surveyed:
  - Itsy Bitsy Spider: ~41%
  - Wheels on the Bus: ~29%
  - Row Your Boat: ~25%
  - Take Me Out to the Ballgame: ~3%



# TAKEAWAYS (PART TWO)

- Many said, “I’m sorry. I don’t know.”
- Many said, “I’m not good at this.”
- Many said, “I don’t like this.”

# CURSE OF KNOWLEDGE



# STICKY ATTRIBUTES

- SIMPLE
- UNEXPECTED
- CONCRETE
- CREDIBLE
- EMOTIONAL
- STORIES

- 
- SIMPLE
  - UNEXPECTED
  - CONCRETE
  - CREDIBLE
  - EMOTIONAL
  - STORIES

- SIMPLE
- UNEXPECTED
- CONCRETE
- CREDIBLE
- EMOTIONAL
- STORIES

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

## Lesson 12 Skills Practice

Objective: Write PIN Backwards

Write backwards.

1. 0461

1640

2. 3625  
5263

3. 9572  
2759

4. 8713  
3178

7. 6842  
2486

8. 7532  
2357

9. 1549  
945

13.

14

8179

## Home

**Math resources that create  
problem solvers, not robots.**

Download my favorite lessons for elementary, middle, and high school.

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## What happens next?



Keep coming back for more free  
lessons and resources.



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blog and weekly emails.



Take my online workshop for more  
implementation support.

## Lessons

[View all](#)[Kinder](#)[1st](#)[2nd](#)[3rd](#)[4th](#)[5th](#)[6th](#)[7th](#)[8th](#)[Alg.1](#)[Geo](#)[Alg.2](#)

**How Much Money Were Those Pennies?**



**How Can We #SaveNelly?**



**How Many Chip Bags Will There Be?**



**How Can We Make Stronger Passwords?**



**What DOES 2000 Calories**

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 Type and hit enter ...

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First Name

Last Name

Email address

Zip Code (optional)

Job Role(s)

- Elementary School
- Middle School
- High School
- Higher Education

## Resources

### Depth of Knowledge

- [Open Middle](#)
- [Open Middle Worksheet - English \(student version\)](#)
- [Open Middle Worksheet - English \(document camera version\)](#)
- [Open Middle Worksheet - Spanish \(student version\)](#)
- [Open Middle Worksheet - Spanish \(document camera version\)](#)
- [Robert's blog posts on Depth of Knowledge](#)
- [Tool to Distinguish Between Depth of Knowledge Levels](#)

### Problem-Based Lesson Tools

- [Problem-Based Lesson Search Engine](#)
- [Problem Solving Framework v8.1](#)
- [Robert's blog posts on Problem-Based Learning](#)

### Problem-Based Lesson Sources

- [101 Questions](#)
- [Andrew Gael](#)
- [Andrew Stadel](#)
- [Catherine Castillo](#)
- [Christina Tondevold](#)
- [Dan Meyer](#)
- [Dane Ehlt](#)
- [Emergent Math's Problem Based Curriculum Maps](#)

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Last Name

Email address

Zip Code (optional)

Job Role(s)

- Elementary School
- Middle School
- High School
- Higher Education

# 6 SIGNS OF

# UNFORGETTABLE LESSONS

ROBERT KAPLINSKY

[robert@robertkaplinsky.com](mailto:robert@robertkaplinsky.com)

[robertkaplinsky.com/uctm](http://robertkaplinsky.com/uctm)

@robertkaplinsky

