

Tap Into Teen Minds With iPad 2

Kyle Pearce



kyle.pearce@outlook.com



www.tapintoteenminds.com



@MathletePearce



QUESTIONS DURING SESSION?



TWEET IT NOW!

TWEET YOUR QUESTION AND MENTION:

@MathletePearce

...and I'll do my best to answer during the session!

Theory of Action

Effective Teaching Practice



Transformational Technology Use

Increased Student Success



www.tapintoteenminds.com



@MathletePearce

Struggling Students



www.tapintoteenminds.com



@MathletePearce

Students First, Not Stuff



“Putting technology first – simply adding a layer of expensive tools on top of traditional curriculum – does nothing to address the new needs of modern learners”

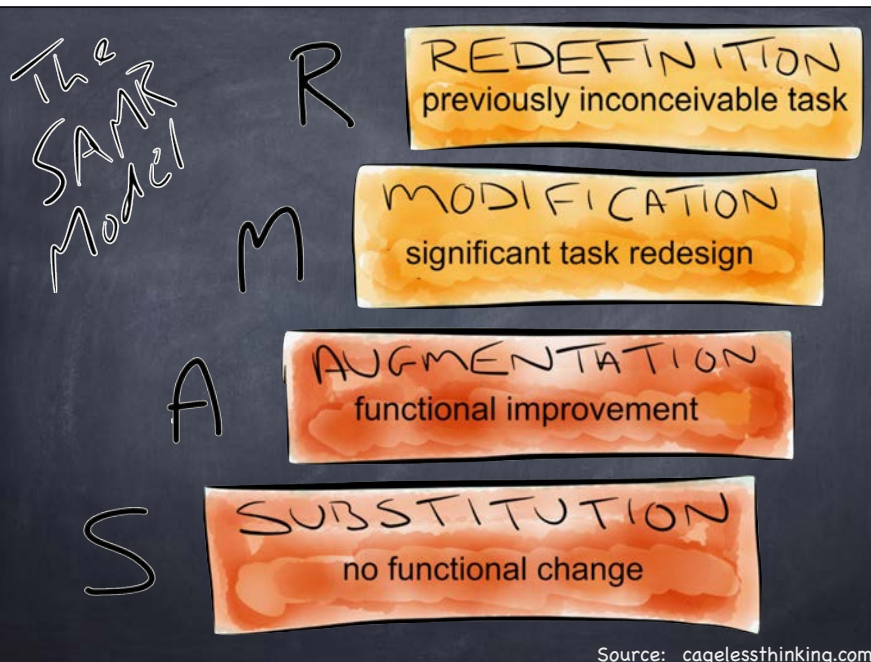
(Richardson, W (2013). Students First, Not Stuff. Educational Leadership, 10-14.)

Redefining Digital Learning in Mathematics

- 30 iPads
- Projector
- Apple TV



Teacher Learning and Leadership Program for **EXPERIENCED TEACHERS**



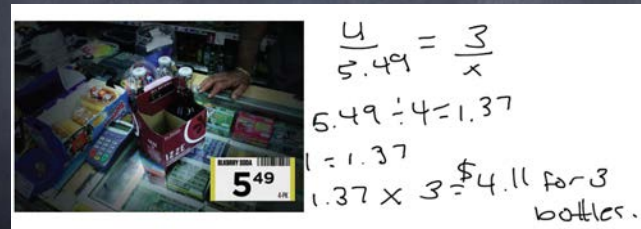
Presenting via iPad Mirroring



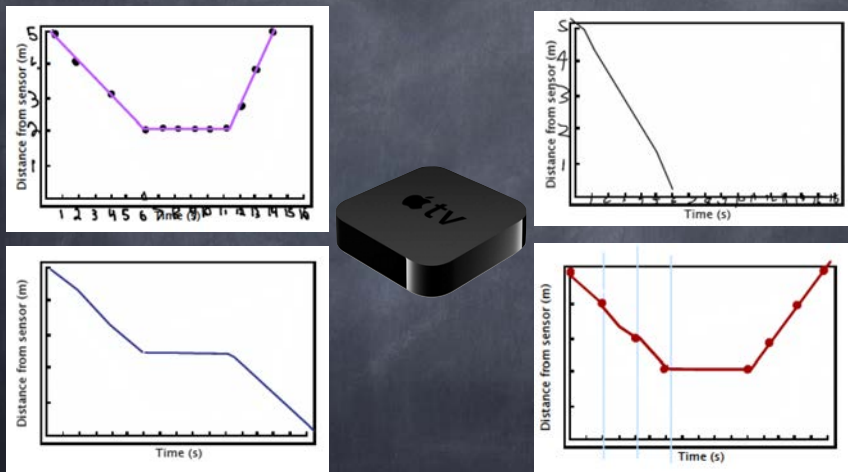
Wireless Document Camera



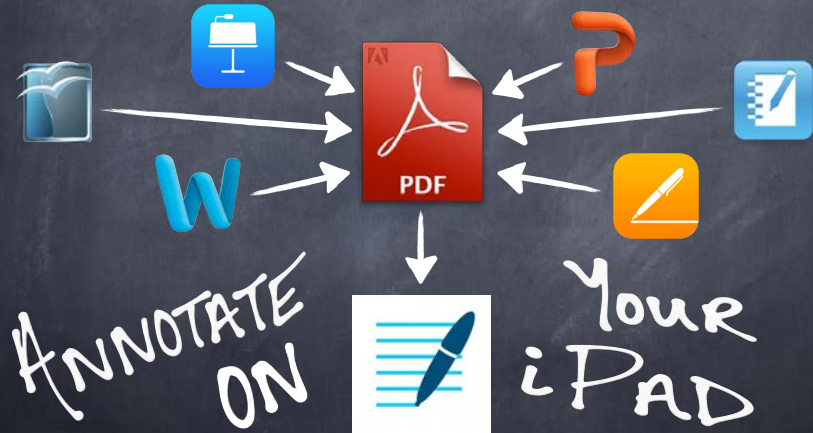
Descriptive Feedback on Student Work



Sharing Student Work



No Typing Necessary



GoodNotes: For Writing



Writing With Ease



Zoom Tool

Zoom Box



How Tall Is The Table?

What is the equation of this relation?

$$\begin{array}{r} 142.75 \\ -100.75 \\ \hline 42.00 \end{array}$$

7 stacks = 42 cm

$\frac{42}{7} = 6 \text{ cm (each)}$

12 x 6 = 72 cm (stacks)

Diagram labels: 142.75 cm (total height), 100.75 cm (table height), 7 stacks, 12 stacks, 5 stack, Height?

How Tall Is The Table?

What is the equation of this relation?

$$\frac{42}{7} = 6$$

$$100.75 - 30 = 70.75$$

$$70.75 + 30 = 100.75$$

$$100.75 + 30 = 130.75$$

$$130.75 + 30 = 160.75$$

$$160.75 + 30 = 190.75$$

$$190.75 + 30 = 220.75$$

$$220.75 + 30 = 250.75$$

$$250.75 + 30 = 280.75$$

$$280.75 + 30 = 310.75$$

$$310.75 + 30 = 340.75$$

$$340.75 + 30 = 370.75$$

$$370.75 + 30 = 400.75$$

$$400.75 + 30 = 430.75$$

$$430.75 + 30 = 460.75$$

$$460.75 + 30 = 490.75$$

$$490.75 + 30 = 520.75$$

$$520.75 + 30 = 550.75$$

$$550.75 + 30 = 580.75$$

$$580.75 + 30 = 610.75$$

$$610.75 + 30 = 640.75$$

$$640.75 + 30 = 670.75$$

$$670.75 + 30 = 700.75$$

$$700.75 + 30 = 730.75$$

$$730.75 + 30 = 760.75$$

$$760.75 + 30 = 790.75$$

$$790.75 + 30 = 820.75$$

$$820.75 + 30 = 850.75$$

$$850.75 + 30 = 880.75$$

$$880.75 + 30 = 910.75$$

$$910.75 + 30 = 940.75$$

$$940.75 + 30 = 970.75$$

$$970.75 + 30 = 1000.75$$

$$1000.75 + 30 = 1030.75$$

$$1030.75 + 30 = 1060.75$$

$$1060.75 + 30 = 1090.75$$

$$1090.75 + 30 = 1120.75$$

$$1120.75 + 30 = 1150.75$$

$$1150.75 + 30 = 1180.75$$

$$1180.75 + 30 = 1210.75$$

$$1210.75 + 30 = 1240.75$$

$$1240.75 + 30 = 1270.75$$

$$1270.75 + 30 = 1300.75$$

$$1300.75 + 30 = 1330.75$$

$$1330.75 + 30 = 1360.75$$

$$1360.75 + 30 = 1390.75$$

$$1390.75 + 30 = 1420.75$$

$$1420.75 + 30 = 1450.75$$

$$1450.75 + 30 = 1480.75$$

$$1480.75 + 30 = 1510.75$$

$$1510.75 + 30 = 1540.75$$

$$1540.75 + 30 = 1570.75$$

$$1570.75 + 30 = 1600.75$$

$$1600.75 + 30 = 1630.75$$

$$1630.75 + 30 = 1660.75$$

$$1660.75 + 30 = 1690.75$$

$$1690.75 + 30 = 1720.75$$

$$1720.75 + 30 = 1750.75$$

$$1750.75 + 30 = 1780.75$$

$$1780.75 + 30 = 1810.75$$

$$1810.75 + 30 = 1840.75$$

$$1840.75 + 30 = 1870.75$$

$$1870.75 + 30 = 1900.75$$

$$1900.75 + 30 = 1930.75$$

$$1930.75 + 30 = 1960.75$$

$$1960.75 + 30 = 1990.75$$

$$1990.75 + 30 = 2020.75$$

$$2020.75 + 30 = 2050.75$$

$$2050.75 + 30 = 2080.75$$

$$2080.75 + 30 = 2110.75$$

$$2110.75 + 30 = 2140.75$$

$$2140.75 + 30 = 2170.75$$

$$2170.75 + 30 = 2200.75$$

$$2200.75 + 30 = 2230.75$$

$$2230.75 + 30 = 2260.75$$

$$2260.75 + 30 = 2290.75$$

$$2290.75 + 30 = 2320.75$$

$$2320.75 + 30 = 2350.75$$

$$2350.75 + 30 = 2380.75$$

$$2380.75 + 30 = 2410.75$$

$$2410.75 + 30 = 2440.75$$

$$2440.75 + 30 = 2470.75$$

$$2470.75 + 30 = 2500.75$$

$$2500.75 + 30 = 2530.75$$

$$2530.75 + 30 = 2560.75$$

$$2560.75 + 30 = 2590.75$$

$$2590.75 + 30 = 2620.75$$

$$2620.75 + 30 = 2650.75$$

$$2650.75 + 30 = 2680.75$$

$$2680.75 + 30 = 2710.75$$

$$2710.75 + 30 = 2740.75$$

$$2740.75 + 30 = 2770.75$$

$$2770.75 + 30 = 2800.75$$

$$2800.75 + 30 = 2830.75$$

$$2830.75 + 30 = 2860.75$$

$$2860.75 + 30 = 2890.75$$

$$2890.75 + 30 = 2920.75$$

$$2920.75 + 30 = 2950.75$$

$$2950.75 + 30 = 2980.75$$

$$2980.75 + 30 = 3010.75$$

$$3010.75 + 30 = 3040.75$$

$$3040.75 + 30 = 3070.75$$

$$3070.75 + 30 = 3100.75$$

$$3100.75 + 30 = 3130.75$$

$$3130.75 + 30 = 3160.75$$

$$3160.75 + 30 = 3190.75$$

$$3190.75 + 30 = 3220.75$$

$$3220.75 + 30 = 3250.75$$

$$3250.75 + 30 = 3280.75$$

$$3280.75 + 30 = 3310.75$$

$$3310.75 + 30 = 3340.75$$

$$3340.75 + 30 = 3370.75$$

$$3370.75 + 30 = 3400.75$$

$$3400.75 + 30 = 3430.75$$

$$3430.75 + 30 = 3460.75$$

$$3460.75 + 30 = 3490.75$$

$$3490.75 + 30 = 3520.75$$

$$3520.75 + 30 = 3550.75$$

$$3550.75 + 30 = 3580.75$$

$$3580.75 + 30 = 3610.75$$

$$3610.75 + 30 = 3640.75$$

$$3640.75 + 30 = 3670.75$$

$$3670.75 + 30 = 3700.75$$

$$3700.75 + 30 = 3730.75$$

$$3730.75 + 30 = 3760.75$$

$$3760.75 + 30 = 3790.75$$

$$3790.75 + 30 = 3820.75$$

$$3820.75 + 30 = 3850.75$$

$$3850.75 + 30 = 3880.75$$

$$3880.75 + 30 = 3910.75$$

$$3910.75 + 30 = 3940.75$$

$$3940.75 + 30 = 3970.75$$

$$3970.75 + 30 = 4000.75$$

$$4000.75 + 30 = 4030.75$$

$$4030.75 + 30 = 4060.75$$

$$4060.75 + 30 = 4090.75$$

$$4090.75 + 30 = 4120.75$$

$$4120.75 + 30 = 4150.75$$

$$4150.75 + 30 = 4180.75$$

$$4180.75 + 30 = 4210.75$$

$$4210.75 + 30 = 4240.75$$

$$4240.75 + 30 = 4270.75$$

$$4270.75 + 30 = 4300.75$$

$$4300.75 + 30 = 4330.75$$

$$4330.75 + 30 = 4360.75$$

$$4360.75 + 30 = 4390.75$$

$$4390.75 + 30 = 4420.75$$

$$4420.75 + 30 = 4450.75$$

$$4450.75 + 30 = 4480.75$$

$$4480.75 + 30 = 4510.75$$

$$4510.75 + 30 = 4540.75$$

$$4540.75 + 30 = 4570.75$$

$$4570.75 + 30 = 4600.75$$

$$4600.75 + 30 = 4630.75$$

$$4630.75 + 30 = 4660.75$$

$$4660.75 + 30 = 4690.75$$

$$4690.75 + 30 = 4720.75$$

$$4720.75 + 30 = 4750.75$$

$$4750.75 + 30 = 4780.75$$

$$4780.75 + 30 = 4810.75$$

$$4810.75 + 30 = 4840.75$$

$$4840.75 + 30 = 4870.75$$

$$4870.75 + 30 = 4900.75$$

$$4900.75 + 30 = 4930.75$$

$$4930.75 + 30 = 4960.75$$

$$4960.75 + 30 = 4990.75$$

$$4990.75 + 30 = 5020.75$$

$$5020.75 + 30 = 5050.75$$

$$5050.75 + 30 = 5080.75$$

$$5080.75 + 30 = 5110.75$$

$$5110.75 + 30 = 5140.75$$

$$5140.75 + 30 = 5170.75$$

$$5170.75 + 30 = 5200.75$$

$$5200.75 + 30 = 5230.75$$

$$5230.75 + 30 = 5260.75$$

$$5260.75 + 30 = 5290.75$$

$$5290.75 + 30 = 5320.75$$

$$5320.75 + 30 = 5350.75$$

$$5350.75 + 30 = 5380.75$$

$$5380.75 + 30 = 5410.75$$

$$5410.75 + 30 = 5440.75$$

$$5440.75 + 30 = 5470.75$$

$$5470.75 + 30 = 5500.75$$

$$5500.75 + 30 = 5530.75$$

$$5530.75 + 30 = 5560.75$$

$$5560.75 + 30 = 5590.75$$

$$5590.75 + 30 = 5620.75$$

$$5620.75 + 30 = 5650.75$$

$$5650.75 + 30 = 5680.75$$

$$5680.75 + 30 = 5710.75$$

$$5710.75 + 30 = 5740.75$$

$$5740.75 + 30 = 5770.75$$

$$5770.75 + 30 = 5800.75$$

$$5800.75 + 30 = 5830.75$$

$$5830.75 + 30 = 5860.75$$

$$5860.75 + 30 = 5890.75$$

$$5890.75 + 30 = 5920.75$$

$$5920.75 + 30 = 5950.75$$

$$5950.75 + 30 = 5980.75$$

$$5980.75 + 30 = 6010.75$$

$$6010.75 + 30 = 6040.75$$

$$6040.75 + 30 = 6070.75$$

$$6070.75 + 30 = 6100.75$$

$$6100.75 + 30 = 6130.75$$

$$6130.75 + 30 = 6160.75$$

$$6160.75 + 30 = 6190.75$$

$$6190.75 + 30 = 6220.75$$

$$6220.75 + 30 = 6250.75$$

$$6250.75 + 30 = 6280.75$$

$$6280.75 + 30 = 6310.75$$

$$6310.75 + 30 = 6340.75$$

$$6340.75 + 30 = 6370.75$$

$$6370.75 + 30 = 6400.75$$

$$6400.75 + 30 = 6430.75$$

$$6430.75 + 30 = 6460.75$$

$$6460.75 + 30 = 6490.75$$

$$6490.75 + 30 = 6520.75$$

$$6520.75 + 30 = 6550.75$$

$$6550.75 + 30 = 6580.75$$

$$6580.75 + 30 = 6610.75$$

$$6610.75 + 30 = 6640.75$$

$$6640.75 + 30 = 6670.75$$

$$6670.75 + 30 = 6700.75$$

$$6700.75 + 30 = 6730.75$$

$$6730.75 + 30 = 6760.75$$

$$6760.75 + 30 = 6790.75$$

$$6790.75 + 30 = 6820.75$$

$$6820.75 + 30 = 6850.75$$

$$6850.75 + 30 = 6880.75$$

$$6880.75 + 30 = 6910.75$$

$$6910.75 + 30 = 6940.75$$

$$6940.75 + 30 = 6970.75$$

$$6970.75 + 30 = 7000.75$$

$$7000.75 + 30 = 7030.75$$

$$7030.75 + 30 = 7060.75$$

$$7060.75 + 30 = 7090.75$$

$$7090.75 + 30 = 7120.75$$

$$7120.75 + 30 = 7150.75$$

$$7150.75 + 30 = 7180.75$$

$$7180.75 + 30 = 7210.75$$

$$7210.75 + 30 = 7240.75$$

$$7240.75 + 30 = 7270.75$$

$$7270.75 + 30 = 7300.75$$

$$7300.75 + 30 = 7330.75$$

$$7330.75 + 30 = 7360.75$$

$$7360.75 + 30 = 7390.75$$

$$7390.75 + 30 = 7420.75$$

$$7420.75 + 30 = 7450.75$$

$$7450.75 + 30 = 7480.75$$

$$7480.75 + 30 = 7510.75$$

$$7510.75 + 30 = 7540.75$$

$$7540.75 + 30 = 7570.75$$

$$7570.75 + 30 = 7600.75$$

$$7600.75 + 30 = 7630.75$$

$$7630.75 + 30 = 7660.75$$

$$7660.75 + 30 = 7690.75$$

$$7690.75 + 30 = 7720.75$$

$$7720.75 + 30 = 7750.75$$

$$7750.75 + 30 = 7780.75$$

$$7780.75 + 30 = 7810.75$$

$$7810.75 + 30 = 7840.75$$

$$7840.75 + 30 = 7870.75$$

$$7870.75 + 30 = 7900.75$$

$$7900.75 + 30 = 7930.75$$

$$7930.75 + 30 = 7960.75$$

$$7960.75 + 30 = 7990.75$$

$$7990.75 + 30 = 8020.75$$

$$8020.75 + 30 = 8050.75$$

$$8050.75 + 30 = 8080.75$$

$$8080.75 + 30 = 8110.75$$

$$8110.75 + 30 = 8140.75$$

$$8140.75 + 30 = 8170.75$$

$$8170.75 + 30 = 8200.75$$

$$8200.75 + 30 = 8230.75$$

$$8230.75 + 30 = 8260.75$$

$$8260.75 + 30 = 8290.75$$

$$8290.75 + 30 = 8320.75$$

$$8320.75 + 30 = 8350.75$$

$$8350.75 + 30 = 8380.75$$

$$8380.75 + 30 = 8410.75$$

$$8410.75 + 30 = 8440.75$$

$$8440.75 + 30 = 8470.75$$

$$8470.75 + 30 = 8500.75$$

$$8500.75 + 30 = 8530.75$$

$$8530.75 + 30 = 8560.75$$

$$8560.75 + 30 = 8590.75$$

$$8590.75 + 30 = 8620.75$$

$$8620.75 + 30 = 8650.75$$

$$8650.75 + 30 = 8680.75$$

$$8680.75 + 30 = 8710.75$$

$$8710.75 + 30 = 8740.75$$

$$8740.75 + 30 = 8770.75$$

$$8770.75 + 30 = 8800.75$$

$$8800.75 + 30 = 8830.75$$

$$8830.75 + 30 = 8860.75$$

$$8860.75 + 30 = 8890.75$$

$$8890.75 + 30 = 8920.75$$

$$8920.75 + 30 = 8950.75$$

$$8950.75 + 30 = 8980.75$$

$$8980.75 + 30 = 9010.75$$

$$9010.75 + 30 = 9040.75$$

$$904$$

height of stack on left. height of stack on right.
 $142.75 - 100.75$
 $= 42 \Rightarrow$ space between right & left stacks.
 $= \frac{42}{7}$ space
 7 extra stacks on left.
 $= 6$ each stack is 6cm.

if theres 5 stacks on the right. And each package is 6cm. you could multiply 5×6 to get the height of the paper stack on the right.

$5 \times 6 = 30$
 then to find the height of the table you subtract 30 from 100.75 to find the answer.
 $100.75 - 30 = 70.75$

www.tapintoteenminds.com @MathletePearce

Equations Given 2 Points

Algebraic EQUATION GIVEN 2 POINTS

Height vs Stacks

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{142.75 - 100.75}{12 - 5} = \frac{42}{7} = 6$

$y - y_1 = m(x - x_1)$
 $142.75 - 100.75 = 6(x - 12)$
 $42 = 6x - 72$
 $114 = 6x$
 $19 = x$

$y = 6x + b$
 $142.75 = 6(12) + b$
 $142.75 = 72 + b$
 $70.75 = b$

EQUATION:
 $y = 6x + 70.75$

FIND TABLE HEIGHT
 (initial value / y-int)
 70.75

www.tapintoteenminds.com @MathletePearce

Saving Content

iTunes

Email

Cloud

www.tapintoteenminds.com @MathletePearce

One-Way Sync

Auto-Magically!

Cloud Storage and One-Way Sync

Cloud Storage

- box OFF
- Dropbox ON
- Google Drive ON
- SkyDrive OFF

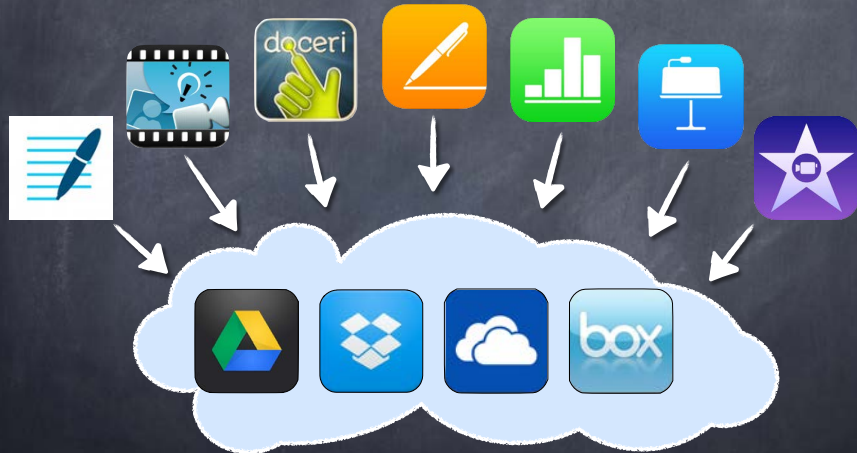
One-Way Sync

- One-Way Sync ON
- Sync Over Wi-Fi or Bluetooth Only OFF
- Cloud Storage Dropbox
- Folder GoodNotes
- File Format PDF

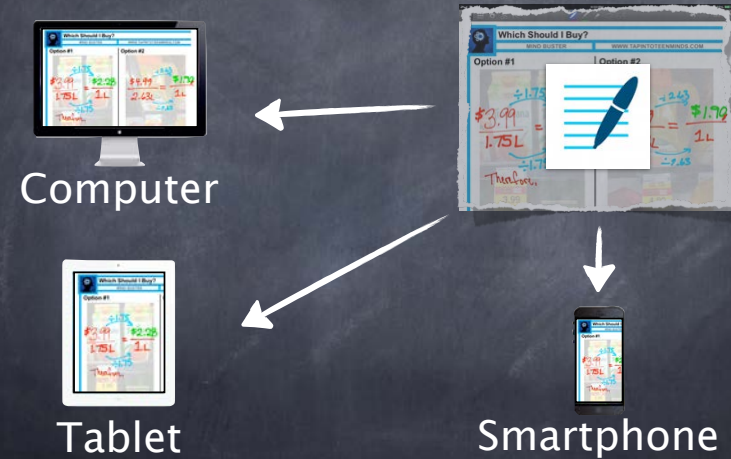
One-Way Sync will automatically upload your documents and changes to the destination folder. Be aware that it will delete all files not uploaded by itself in that folder.

www.tapintoteenminds.com @MathletePearce

Cloud Shared Folders



Accessible Anywhere



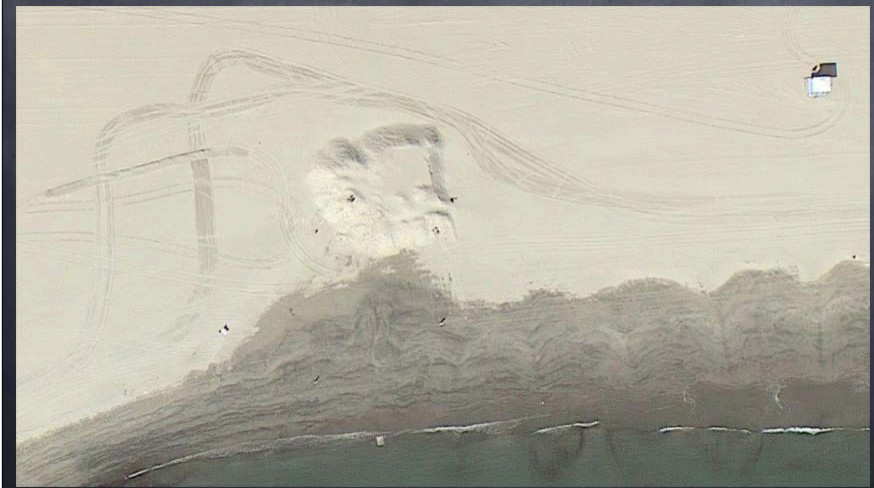
Importing Into GoodNotes

Go To:

tapintoteenminds.com/sudbury

Scroll Down To The Calendar

Taco Cart – Act 1

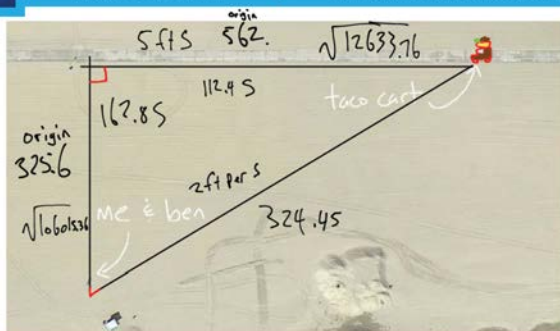
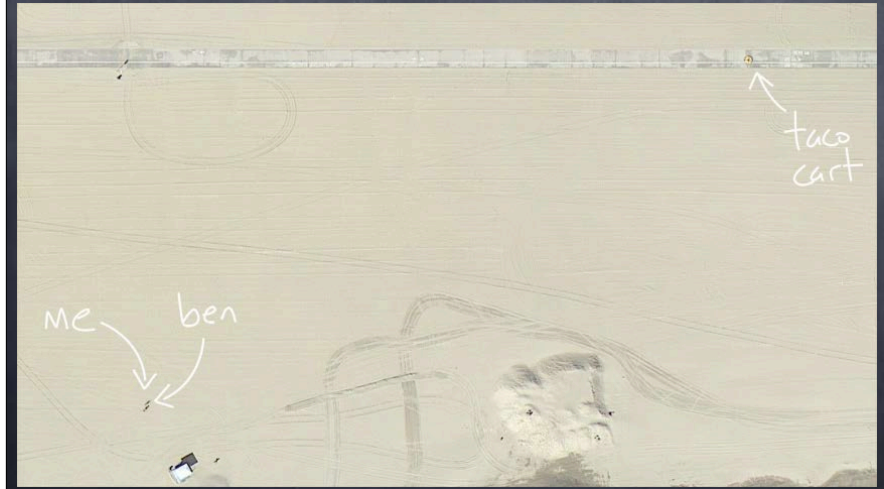


Taco Cart – Act 2

5 feet per second

2 feet per second

Taco Cart – Act 3



Write the Question:
Which is faster

What information do we need?

Speeds	4.5 m	Pearce	ben	
		$\frac{275.3}{60}$	$\frac{324.5}{60}$	5.4/m

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

$$325.6^2 + 562.6^2 = c^2$$

$$106015.36 + 316518.76 = c^2$$

$$422534.12 = c^2$$

$$650.026 = c$$

$$650.026 \div 2 = 325.013$$

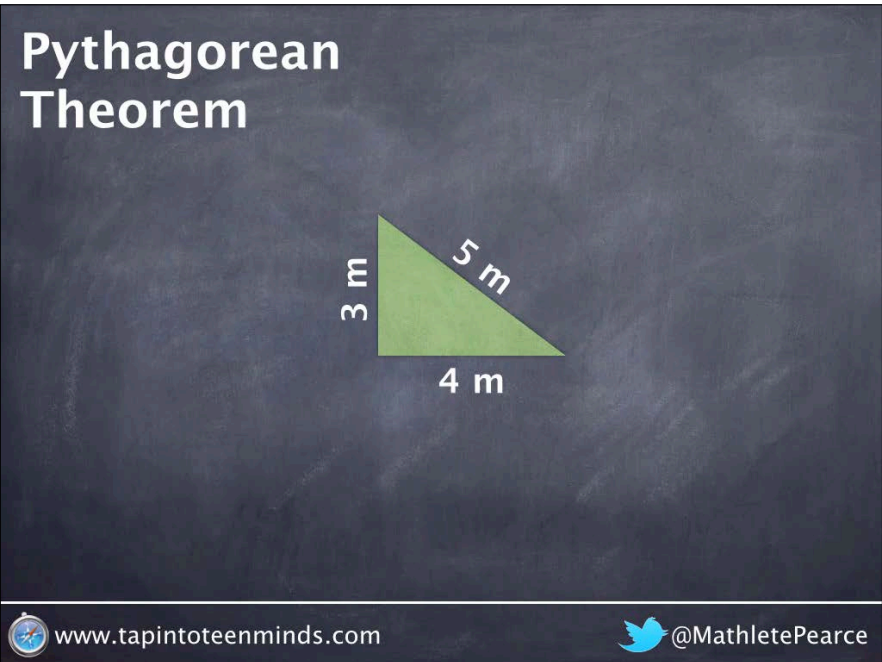
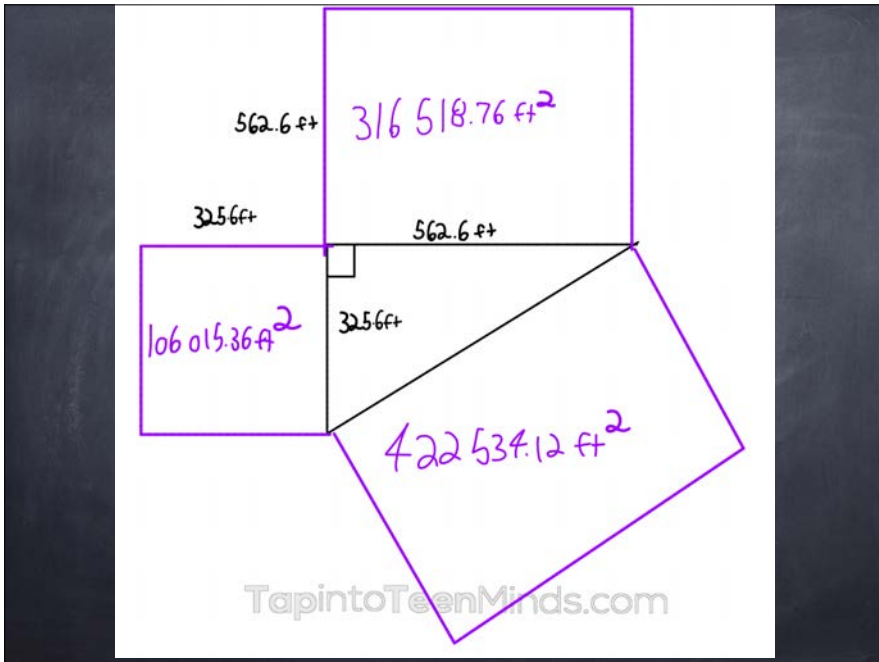
$$325.6 \div 2 = 162.8$$

$$562.6 \div 5 = 112.52$$

$$162.8 + 112.52 = 275.32$$

"Me" 275.32 sec
Ben 325.013 sec

It is shorter to go on the road.



Multi-Tasking

Safari

Photos

www.tapintoteenminds.com

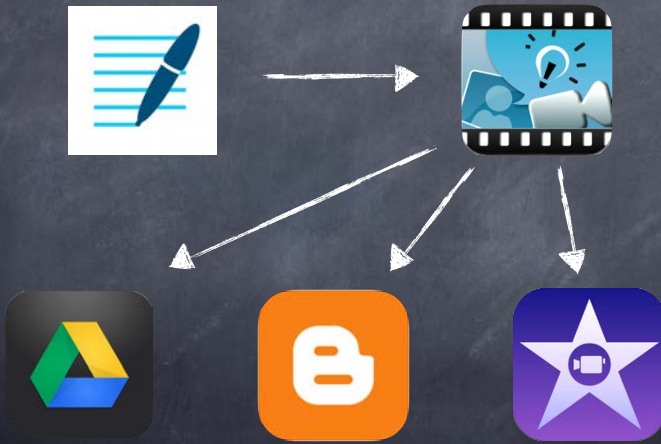
@MathletePearce

App Smashing

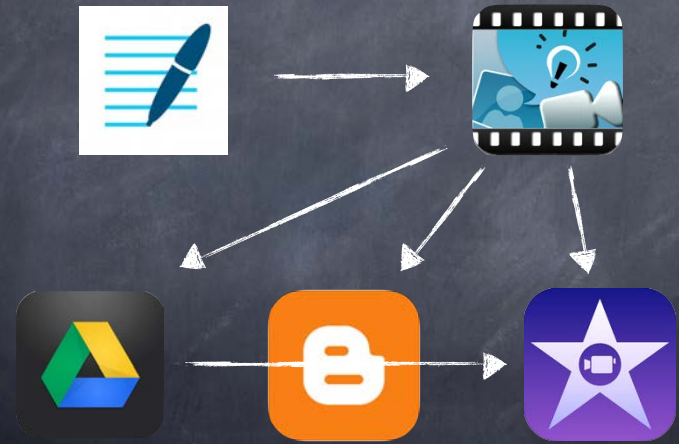
www.tapintoteenminds.com

@MathletePearce

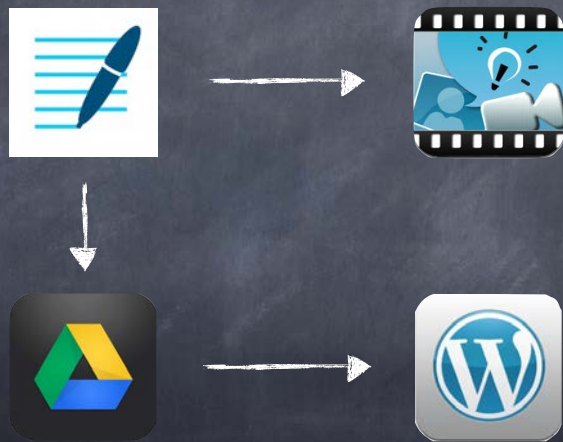
App Smashing



App Smashing



App Smashing



App Smashing



Reciprocal Teaching



Cone Comparison
REAL WORLD MATH WWW.TAPINTOTEENMINDS.COM

$V = \text{Area of Base} \times \text{Height} \div 3$

Doceri



MacLaurin
 $f(x) = f(0) + f'(0)x + \frac{f''(0)}{2!}x^2 + \frac{f'''(0)}{3!}x^3 + \dots$

Consider
So $f(x) = \dots$

Similarly
 $\sum_{n=0}^{\infty} \frac{(-1)^n x^{2n}}{(2n)!} = \cos x$
 $\sum_{n=0}^{\infty} \frac{(-1)^n x^{2n+1}}{(2n+1)!} = \sin x$

$+ bi : a, b \text{ are real}$
 $\frac{(iz)^2}{2} + \frac{(iz)^3}{3!} + \frac{(iz)^4}{4!} + \dots$
 $-\frac{iz^3}{3!} + \frac{z^4}{4!} - \frac{iz^5}{5!} + \dots$
 $+ i \sin z$

$a = -1$
 $b = 0$
 $a + bi = -1 + 0i = -1$

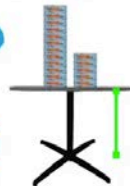
Recording With Doceri



Tapinto
TeenMinds

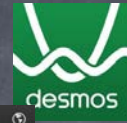
How Tall Is The Short Table?

Finding The Equation
of a Line Given
Two Points (x,y)



TapintoTeenMinds.com

Desmos



angrybird desmos

- $y = -\sqrt{25 - (x)^2}$
- $y = \sqrt[3]{30(x+5)} \{x \geq -5\} \{x < \dots\}$
- $y = -\sqrt[3]{30(x-5)} \{x \leq 5\} \{x \geq \dots\}$
- $y = \sqrt{1 - (x-0.4)^2} + 0.6$
- $y = -\sqrt{1 - (x-0.4)^2} + 0.6$
- $Y = \sqrt{1 - (X-2.4)^2} + 0.6$
- $Y = -\sqrt{1 - (x-2.4)^2} + 0.6 \{x \dots\}$
- $Y = -0.1(X) - 1.25 \{X \geq 0.3\} \{ \dots\}$
- $Y = -1.3(X+0.7) \{X \leq 1.372\} \{ \dots\}$

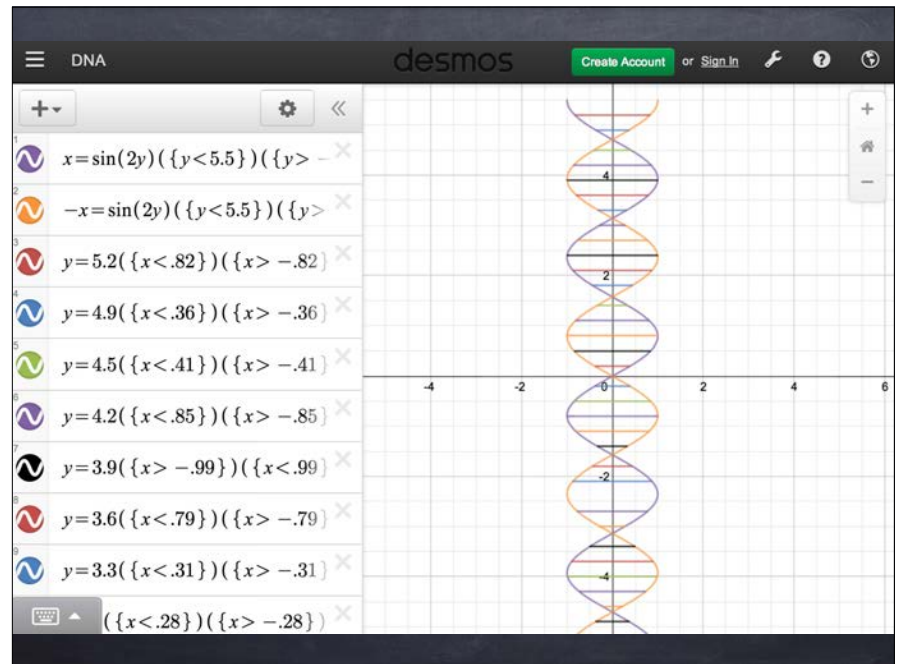
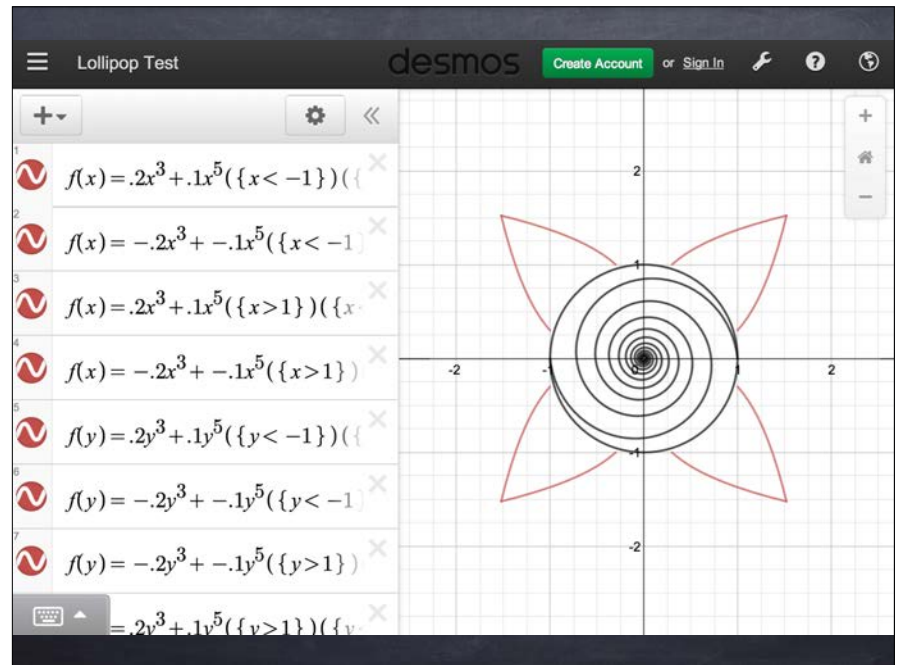
Bad Example? Maybe

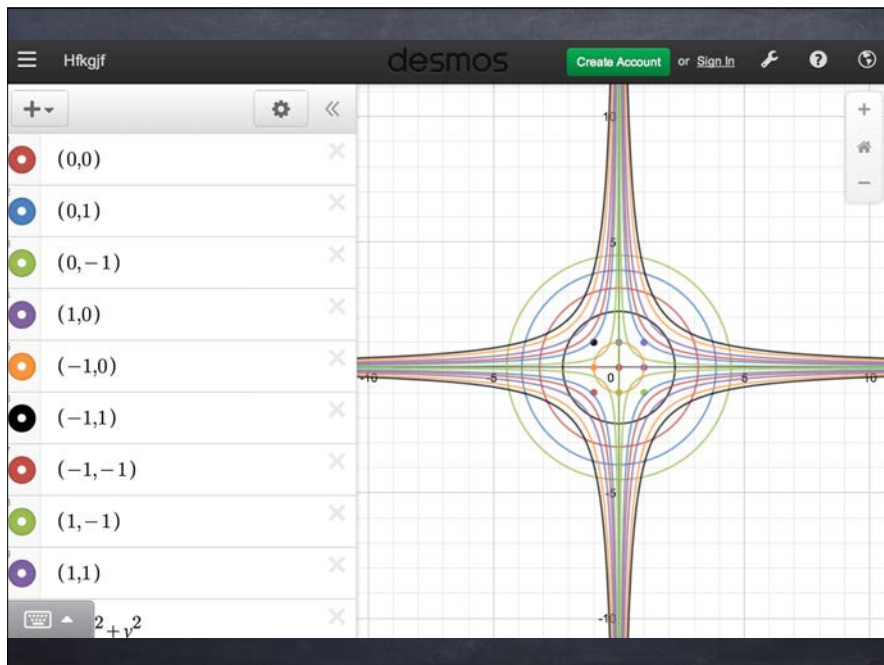
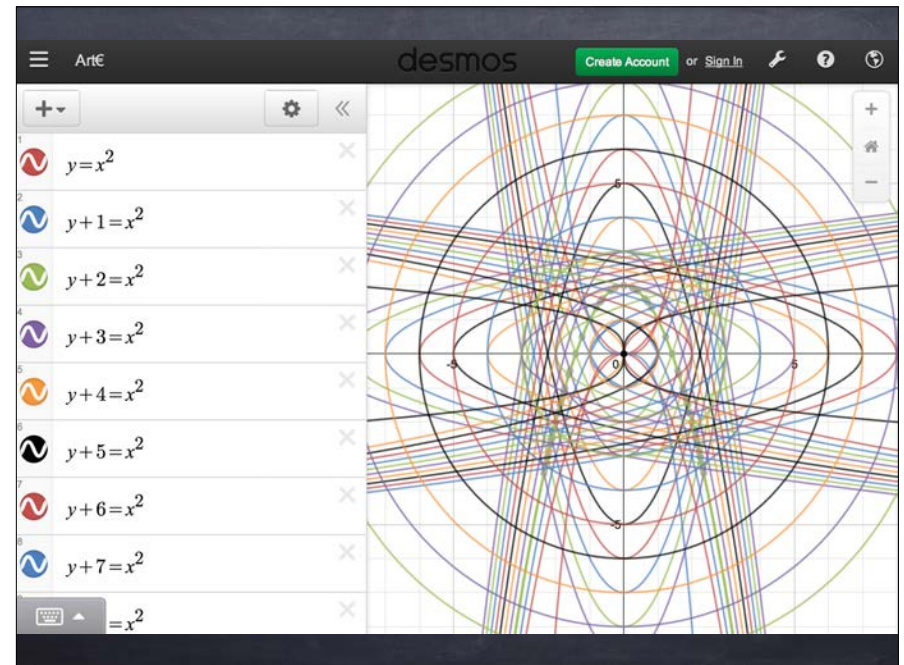
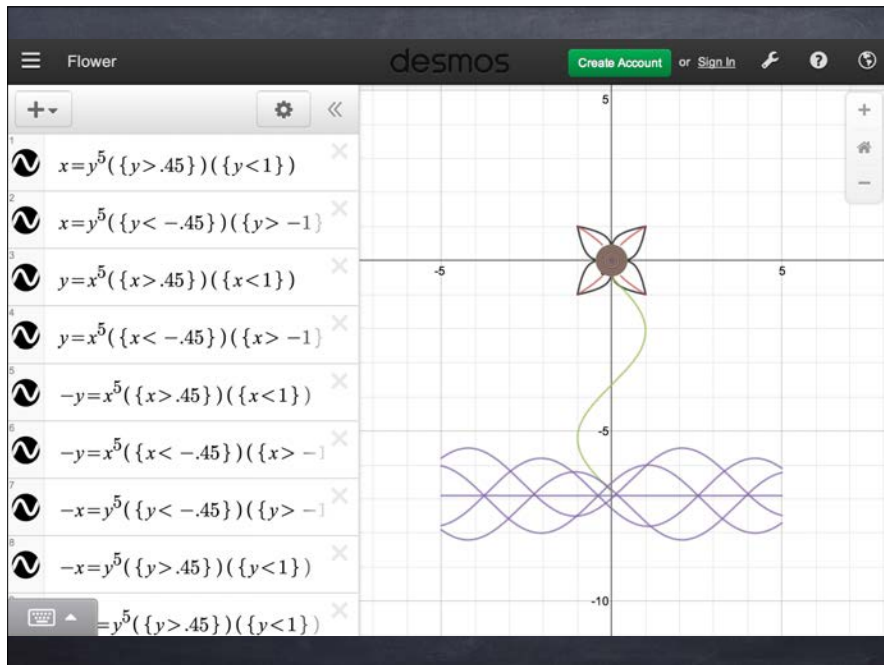


$y = -\sqrt{2}$	$y = 2(x+5) \{x \leq -5\} \{x \geq -6\}$	$y = -0.5 \{x \geq -6\} \{x \leq -5.25\}$	$-1.4 \{x \geq -3.38\} \{x \leq -0.3\} - 0.6 \{x \leq 1.38\}$
$y = \sqrt[3]{30}$	$y = (x+5.5) \{x \leq -4.996\} \{x \geq -16\}$	$y = -(x+5.75) \{x \geq -5.625\}$	$0.3 - 0.6 \{x \leq 1.38\}$
$y = -\sqrt[3]{3}$	$y = -2(x+7) \{x \leq -6\} \{x \geq -1.5625\} \{x \leq -5\}$	$5.625 \{x \leq -5\}$	$+5.5 - 3 \{x \geq 1.38\}$
$y = \sqrt{1-}$	$y = 4\ln(-x+3.4)$	$y = 2.64 \{x \geq -5.927\} \{x \leq -5\}$	$1 \{x \geq -8.167\}$
$y = -\sqrt{1}$	$y = -6\log(x+1.5)$	$y = (x+7.96) \{x \leq -5.32\} \{x \geq -1\}$	$(x-2.4)^2 + 0.6 \{x \geq -6.66\} \{x \geq -5\} + 2 \{x \leq -4.84\}$
$Y = \sqrt{1-}$	$y = \log_{(x+5)}(2)$	$y = 2.276 \{x \geq -5.684\} \{x \leq -1\}$	$\{x \geq -6.66\} \{x \geq -5\} + 2 \{x \leq -4\}$
$Y = -\sqrt{1}$	$y = -6\log(-x+2.5)$	$y = (x+7.414) \{x \leq -5.138\} \{x \geq -1.5\}$	$\{x \geq -5.4\} \{x \leq -5.5\} + 2 \{x \leq -4\}$
$Y = -0.1$	$y = \frac{5}{(0.6x-3.5)}$	$y = 10^{0.15(x)} - 4.3 \{x \leq 2.936\}$	$\{x \leq -5.75\} \{x \geq -6.5\} \{x \leq -5\} + 1 \{x \leq -4.96\}$
$Y = -1.3$	$y = \text{ceil}(0.2x) \{x \geq -6.5\} \{x \leq -1.3\}$	$y = (x+9.20) \{x \geq -6.2\} \{x \leq -1.3\}$	$+5\} + 0.5 \{x \leq -4\}$
$Y = 0.8(x$	$y = (x+5.5) - 1 \{x \leq -5.5\} \{x \geq -4\}$	$y = 3.05 \{x \geq -6.2\} \{x \leq -5.52\}$	$+5\} + 0.5 \{x \leq -4\}$
		$y = (x+8.575) \{x \leq -5.525\} \{x \geq -1\}$	$\{x \leq -8\} \{x \geq -1\}$

www.tapintoteenminds.com

@MathletePearce





Gamification

The image features a grid of eight icons representing different gamification concepts or brands:

- A blue square with a white 'x' symbol.
- A yellow treasure chest with a keyhole.
- A brown square divided into four quadrants with mathematical symbols: '+', '-', 'x', and '÷'. A gold crown is placed on top.
- A purple square with the text 'LAB' in a speech bubble, '5/6' below it, and a small robot icon.
- An orange square with a white question mark and exclamation point, and two eyes.
- A green square with a white dinosaur head.
- A green square with the text 'm SCALED'.
- A blue square with the text 'm²'.

www.tapintoteenminds.com @MathletePearce

Algebra Touch



← Topics Undo Restart Help

$$-5 * (8 + 2y + 13) = 6$$

Master New Problem



DragonBox

0/8

←



Embed in Lesson

www.tapintoteenminds.com

Visual Representation

Numerical Representation

1

SAME AS

SAME AS

Algebraic Representation



Embed in Lesson

www.tapintoteenminds.com

Graphical Representation

Numerical Representation

1

SAME AS

SAME AS

$$A = B - c + c - B + x$$

Algebraic Representation

SAME AS $A = 0 + 0 + 0$

3 **SAME AS** $A = X$

kylep.ca/1e7Wegp @MathletePearce

Oh No! Fractions!

LAB
5/6

Find the common denominator

$\frac{10}{10}$ SHOW ME! $\frac{8}{12}$ FOUND IT!

www.tapintoteenminds.com @MathletePearce

Puppet Pals: Director's Pass

Simple animated movies!

Press Start

Saved Shows

PUPPET PALS

Award winning educational app!

www.tapintoteenminds.com @MathletePearce

Tellagami

TIME	# of Flaps
0	0
1	54
2	108
3	162
4	216
5	270
6	324

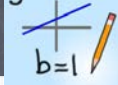
of Flaps!

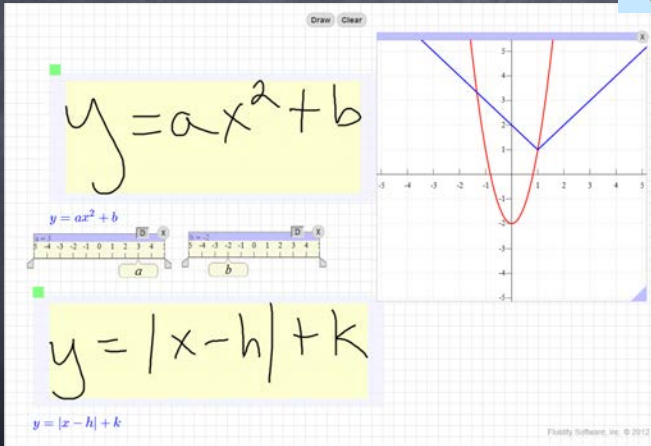
Describe the shape of the graph. Does it intersect the vertical axis?

AR! Rising to the Right! Positive "Direct" TIME

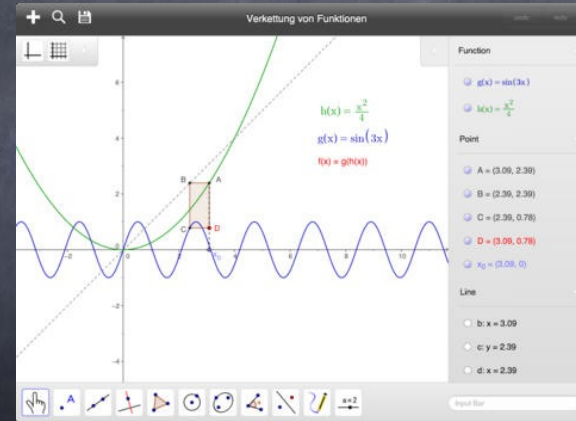
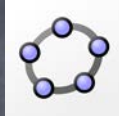
www.tapintoteenminds.com @MathletePearce

FluidMath

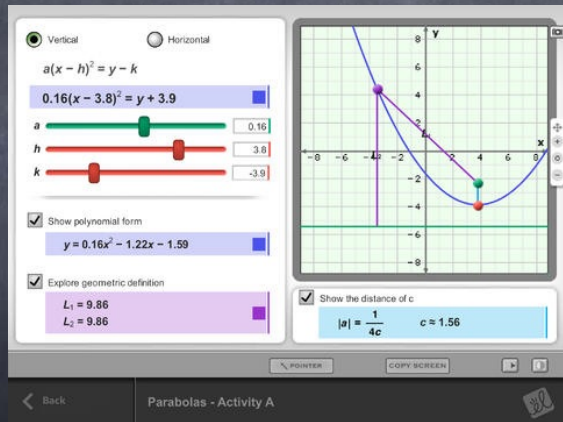
$$y = mx + b$$

$$b = 1$$



GeoGebra



Gizmos



socrative



Growing Success



7 Fundamental Principles

7 Fundamental Principles



To ensure that assessment, evaluation, and reporting are **valid and reliable**, and that they lead to the **improvement of learning** for all students, teachers use practices and procedures that:

7 Fundamental Principles



“are carefully planned to relate to the curriculum expectations and **learning goals**...”

7 Fundamental Principles



“are **communicated clearly** to students and parents at the beginning of the school year or course and at other **appropriate points throughout** the school year or course;”

7 Fundamental Principles



“are ongoing, **varied** in nature, and administered over a period of time to provide **multiple opportunities** for students to demonstrate the full range of their learning;”

7 Fundamental Principles



“provide **ongoing** descriptive feedback that is clear, specific, meaningful, and **timely** to support improved learning and achievement;”

7 Fundamental Principles



“develop students’ self-assessment skills to enable them to **assess their own learning**, set specific goals, and plan next steps for their learning.”

33/40 Excellent job — but you have a couple areas you can still grow in...
Participating more and completing tasks will surely help!

Unit 4 Test - Modelling With Graphs - Part Deux!

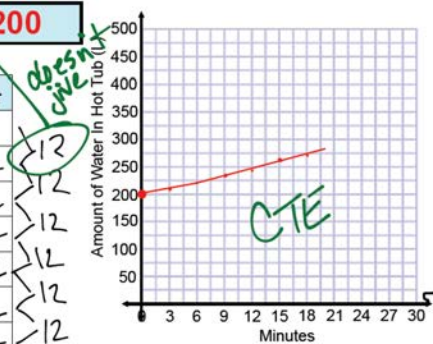
Name: _____ Date: _____

1. You are given a graph that represents the **Amount of Water in a Hot Tub vs. Time**.
a) Complete the **description**, **table**, and **graph** representing this same relationship.

Equation: $y = 12x + 200$

Table of Values

Time	# of Water
0	200 L
3	212 L
6	224 L
9	236 L
12	248 L
15	260 L
18	272 L



REAL WORLD MATH WWW.TAPINTOTEENMINDS.COM

3. The following graph represents Sidney Crosby's (NHL Hockey Player) NHL Career Goals Scored vs. Number of Games Played This Season. Find the **slope / rate of change / constant of variation** using **rise over run**. Clearly label the rise and the run on your explanation.

Handwritten notes:

$$\frac{\text{rise}}{\text{run}} = \frac{18}{41}$$

$$y = \frac{18}{41}x + 769$$

what does $\frac{18}{41}$ mean?

Learning Goal: #4 - I can determine the rate of change (slope) of a line using rise over run.

4. Find the **equation** of the linear relation in the table below. Show your work.

Student Number: 344

kylep.ca/1kK7tKN @MathletePearce

Google Drive Cloud Storage

www.tapintoteenminds.com @MathletePearce

Google Sheets

I can use the distributive property to eliminate brackets in order to solve first-degree equations.

I can solve first-degree equations with fractional coefficients using a variety of tools and strategies.

Student Number

I can rearrange order

UNIT 3 LEARNING GOALS & PROGRESS - S

Practice	U3 QUIZ	Test	Practice	U3 QUIZ	Test	Student Number	Practice
3	2	2	3	4	2	30300937	0
3	3	4	3	4	4	31700805	0
2	3	4	2	4	4	35000988	0
0	1	1	1	2	2	37900878	0

www.tapintoteenminds.com @MathletePearce

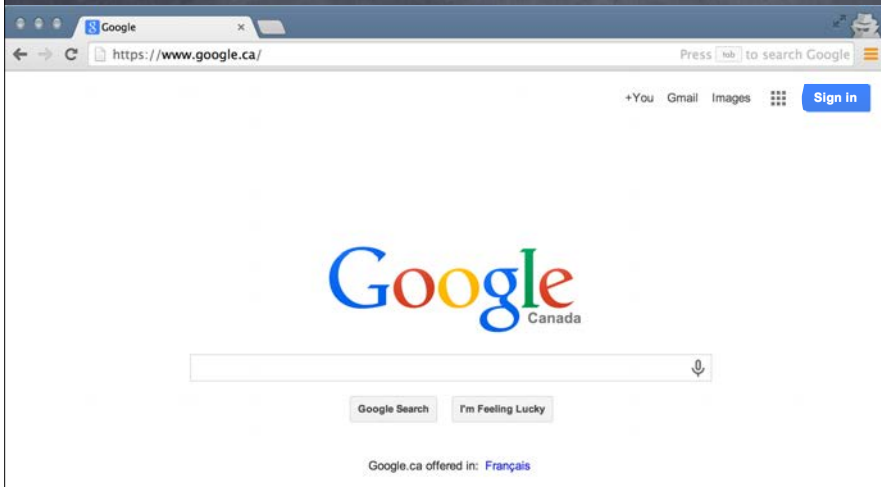
Standard Based Grading

I can solve first-degree equations with fractional coefficients using a variety of tools and strategies.

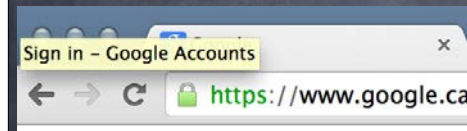
Student Number	Practice	U3 QUIZ	Test
30300937	3	4	2
31700805	3	4	4
35000988	2	4	4
37900878	1	2	2

www.tapintoteenminds.com @MathletePearce

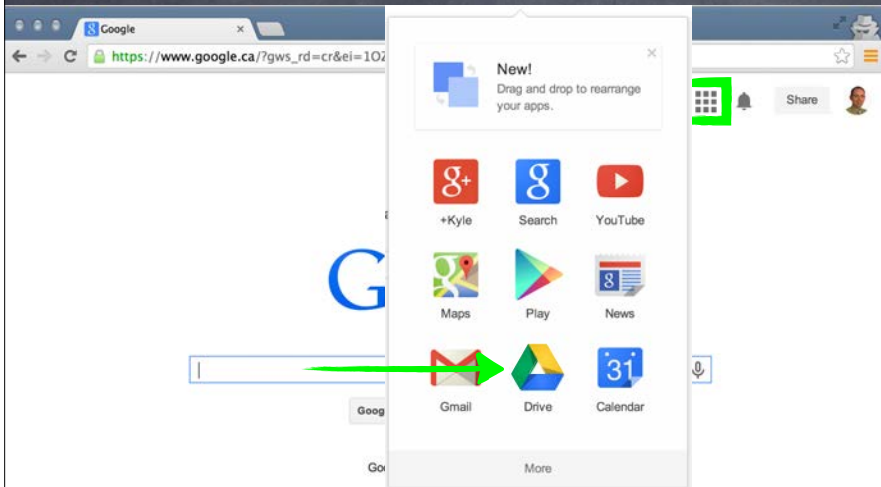
Create Your Own!



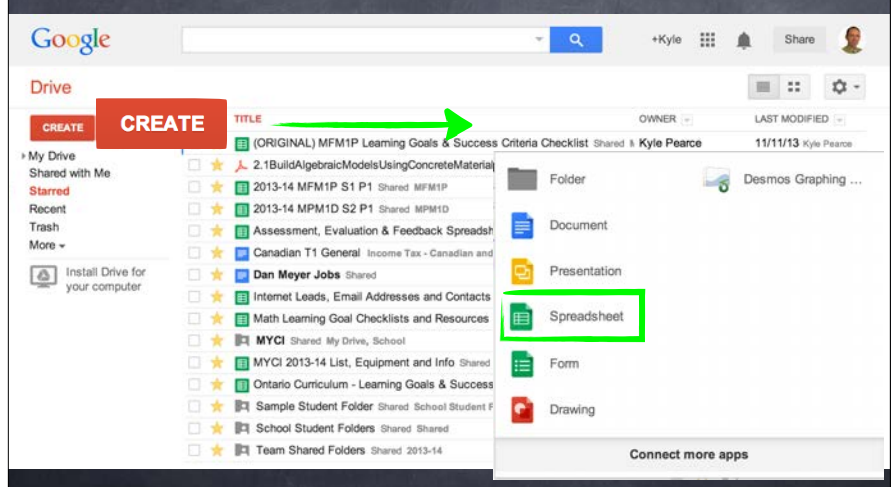
Create Your Own!



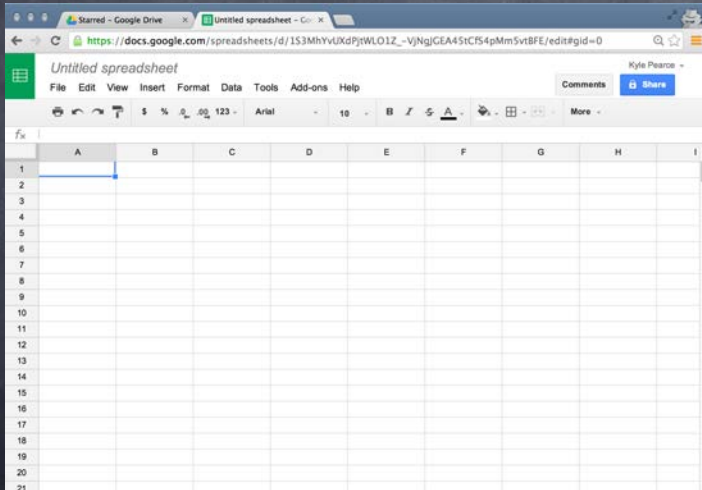
Go to Google Drive



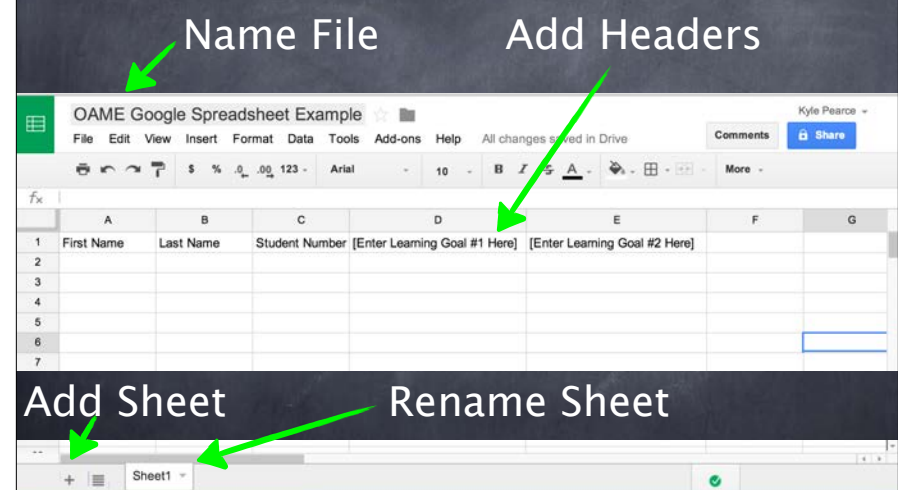
Google Sheets



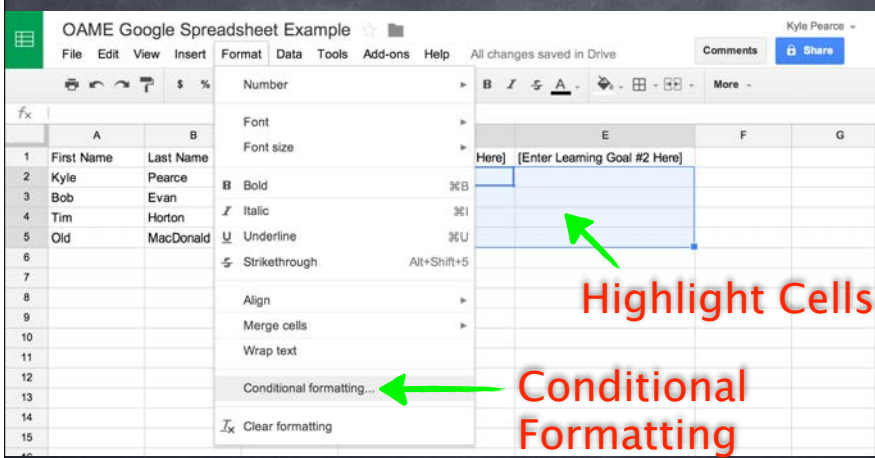
Google Sheets



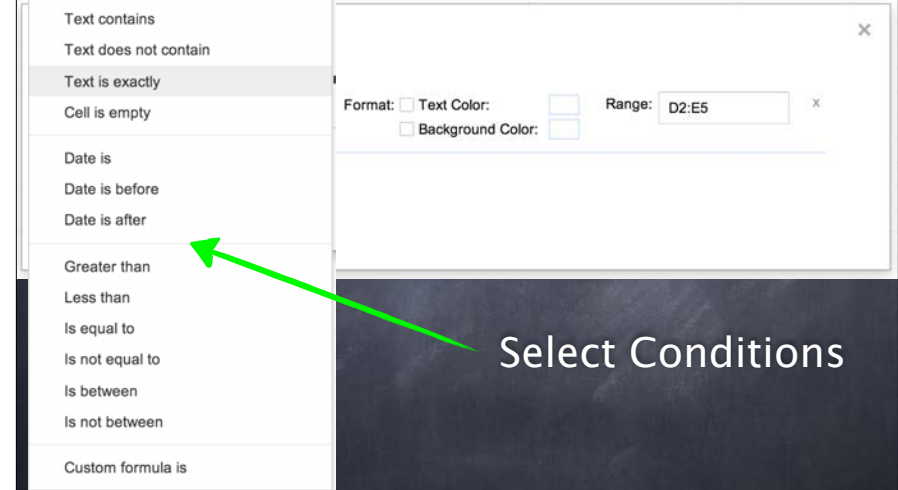
Google Sheets



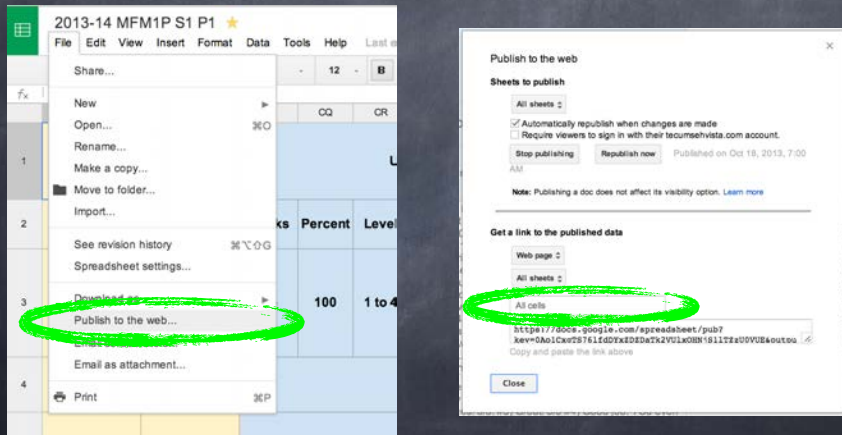
Conditional Formatting



Conditional Formatting



Publish to the Web



www.tapintoteenminds.com

@MathletePearce

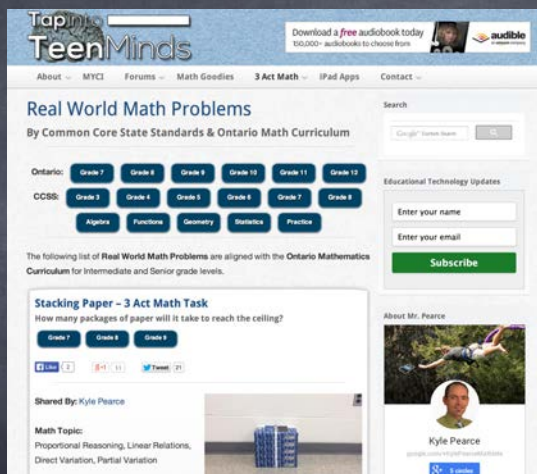
Real World Math Problems

- Record and create Dan Meyer 3 act math tasks



www.tapintoteenminds.com/3act-math

@MathletePearce



<http://tapintoteenminds.com/3act-math/>

Cookie Cutter



@MathletePearce

www.tapintoteenminds.com

@JustinLevack

Cookie Cutter



Tap into
TeenMinds

@MathletePearce www.tapintoteenminds.com @JustinLevack

Cookie Cutter



Tap into
TeenMinds

@MathletePearce www.tapintoteenminds.com @JustinLevack

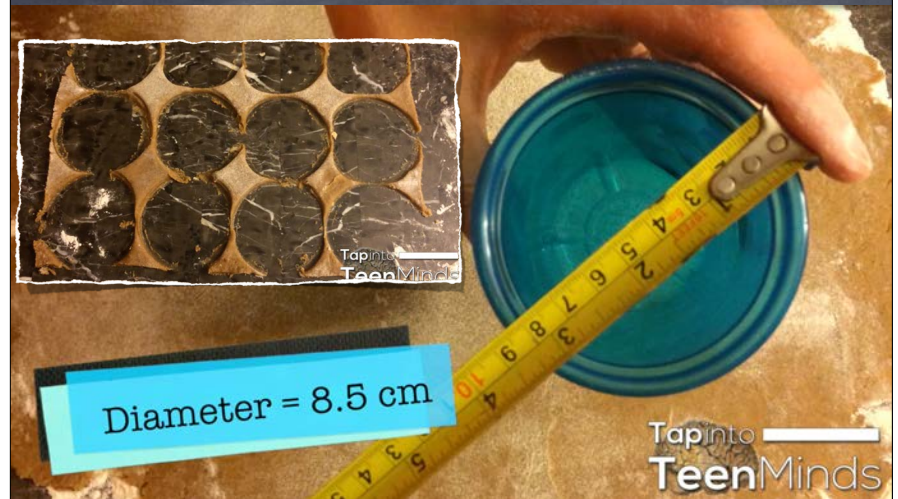
Cookie Cutter



Tap into
TeenMinds

@MathletePearce www.tapintoteenminds.com @JustinLevack

Cookie Cutter



Tap into
TeenMinds

@MathletePearce www.tapintoteenminds.com @JustinLevack

Cookie Cutter



$$A = \pi r^2$$

Why do we need π ?

Discuss & Explore With A Partner

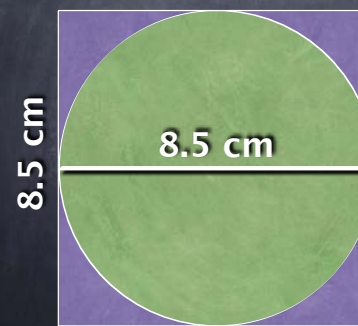
Why do we need π ?

$$A = \pi r^2$$



Why do we need π ?

$$A = \pi r^2$$



Wonderings:

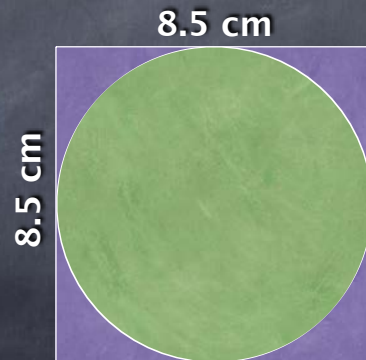
What percentage of the square is green?

What percentage is purple?

Why do we need π ?

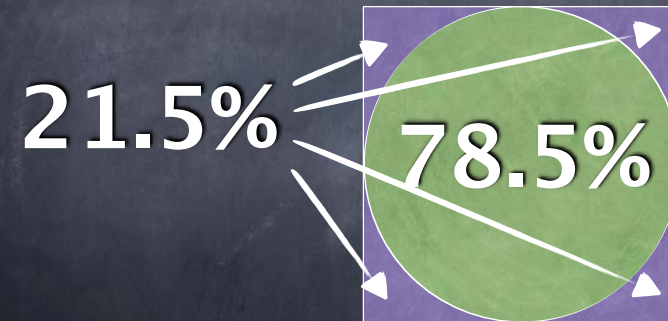
$$A = \pi r^2$$

DOES A
RELATIONSHIP
EXIST?



Why do we need π ?

$$A = \pi r^2$$

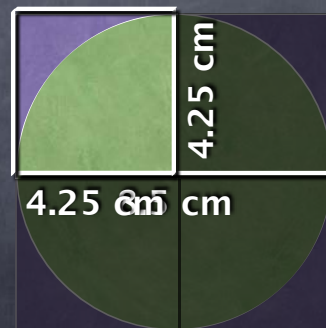


Why do we need π ?

$$A = \pi r^2$$

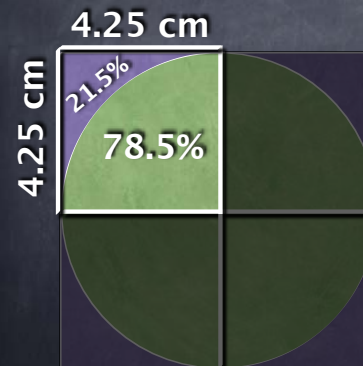
What percentage of
the square is green?

What percentage is
purple?



Why do we need π ?

$$A = \pi r^2$$



How Does This
Proportion Relate to π ?

$$A = (4.25)^2 (0.785)4$$

$$A = (4.25)^2 (3.14)$$

$$A = \pi (4.25)^2$$

Why do we need π ?

$$A = \pi r^2$$



How Does This Proportion Relate to π ?

$$A = (4.25)^2 (0.785) (4)$$

$$A = 14.17 (4) \text{ cm}^2$$

$$A = 56.72 \text{ cm}^2$$

My Next Step in Redefining Mathematics Education

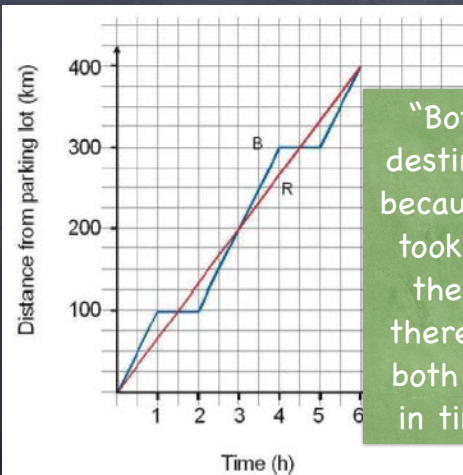


www.MathBlogs.ca

Learning Goals Based Blogging

I can describe a situation that would represent the graph of a two-variable relationship.

www.MathBlogs.ca



"Both cars got to the final destination at the same time, because although the blue car took a couple of breaks and the red car drove straight there, the lines on the graph both meet at the same point in time at the end." - Jenna

www.MathBlogs.ca

Register for a Free Account

MathleteBlogs.com

Currently Powering 60 Blogs

Get Blogging! [LOG IN](#) or [REGISTER](#)

Home How It Works Create a Blog Add a Blog View Blogs Contact

STUDENT MATH BLOGS

GET A FREE MATH BLOG OR ADD YOUR EXISTING ONE!

Register for a **FREE** Wordpress Math Blog with a customizable domain name: **YOURNAME.mathblogs.ca**

Already have a blog? [ADD IT!](#)

[LEARN MORE!](#)

www.MathBlogs.ca

www.tapintoteenminds.com @MathletePearce

Pick Your Own Domain

MathleteBlogs.com

Currently Powering 60 Blogs

Get Blogging! [LOG IN](#) or [REGISTER](#)

Home How It Works Create a Blog Add a Blog View Blogs Contact

STUDENT MATH BLOGS

GET A FREE MATH BLOG OR ADD YOUR EXISTING ONE!

Register for a **FREE** Wordpress Math Blog with a customizable domain name: **YOURNAME.mathblogs.ca**

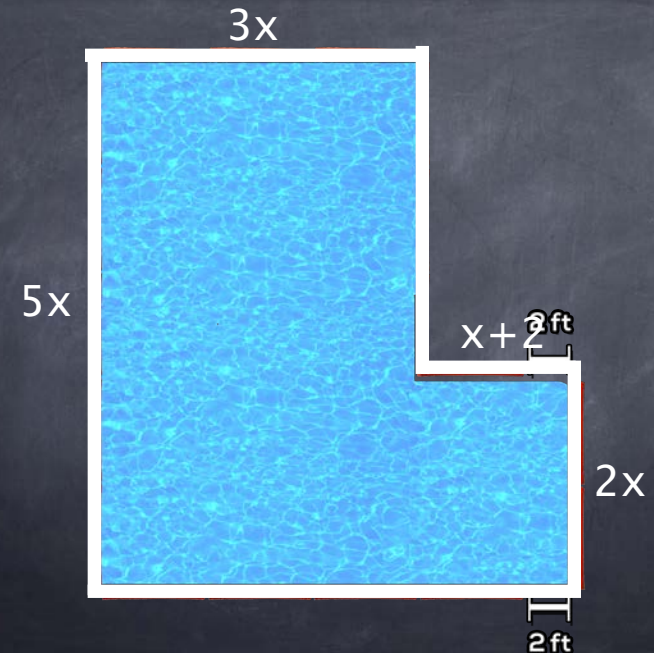
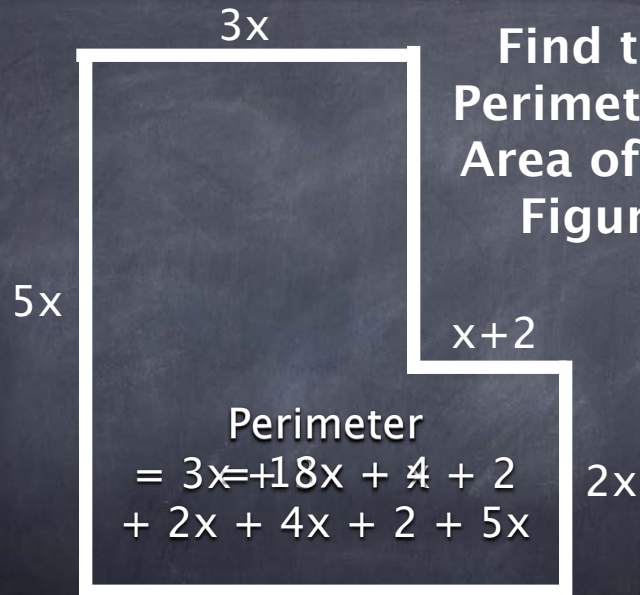
Already have a blog? [ADD IT!](#)

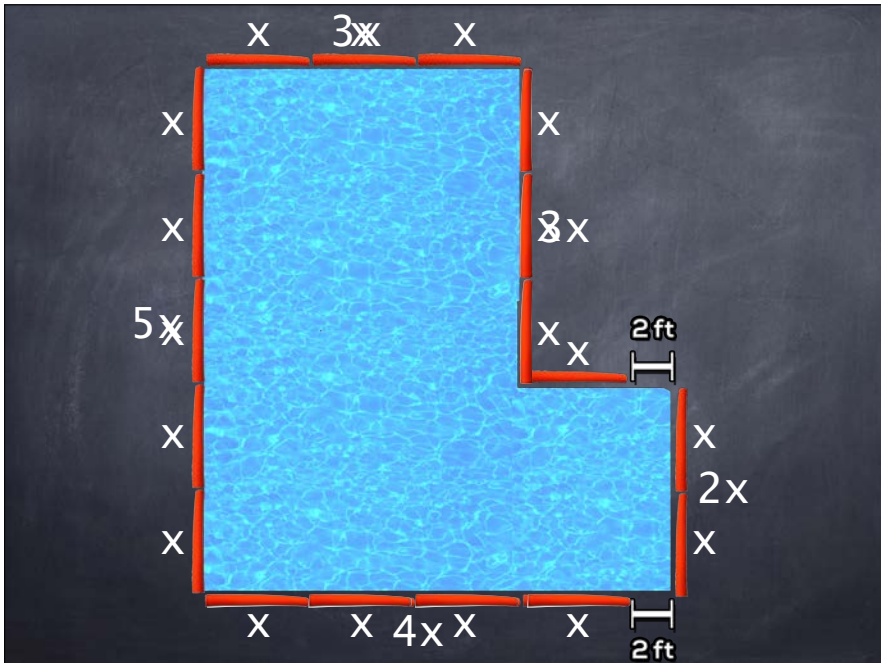
[LEARN MORE!](#)

www.MathBlogs.ca

www.tapintoteenminds.com @MathletePearce

Find the Perimeter & Area of the Figure





Pool Noodles

Let x represent the length of a pool noodle.

$$P = 18x + 4$$

A diagram of a pool noodle pool, similar to the one in the first image. The top side has segments of length x , x , and x . The left side has segments of length x , x , x , x , and x . The right side has segments of length x , x , x , and x . The bottom side has segments of length x , x , x , and x . There are two corners with a 2ft gap between the sides.

www.tapintoteenminds.com @MathletePearce

Pool Noodles

Let x represent the length of a pool noodle.

$$A = 17x^2 + 4x$$

A diagram of a pool noodle pool, similar to the one in the first image. The pool is filled with a grid of x^2 tiles. The top side has segments of length x , x , and x . The left side has segments of length x , x , x , x , and x . The right side has segments of length x , x , x , $2x$, and x . The bottom side has segments of length x , x , x , x , and x . There are two corners with a 2ft gap between the sides.

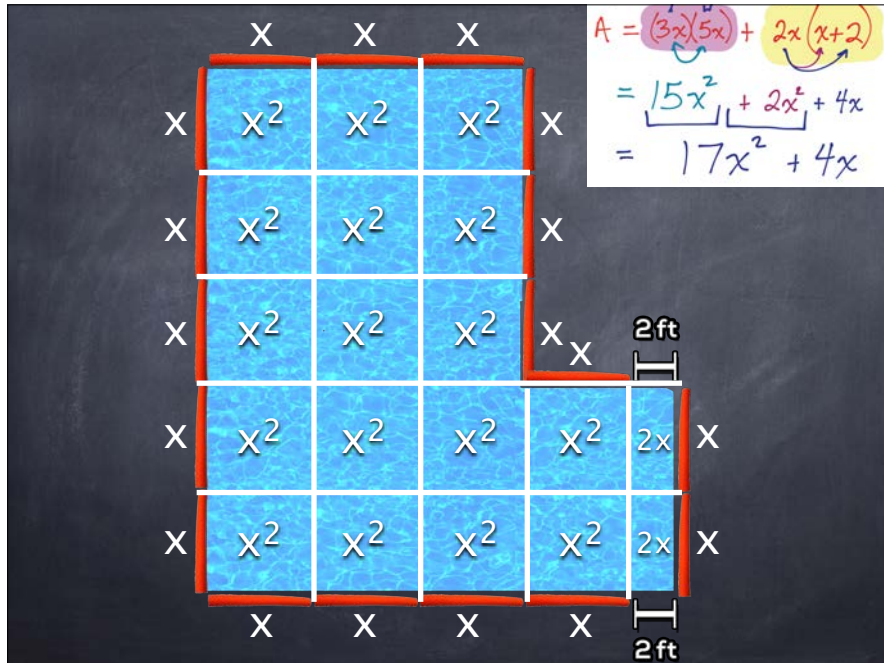
www.tapintoteenminds.com @MathletePearce

Pool Noodles

$P = \text{Add Sides}$
 $= 18x + 4$

A diagram of a pool noodle pool, similar to the one in the first image. The pool is L-shaped. The top side has segments of length x , x , and x . The left side has segments of length x , x , x , x , and x . The right side has segments of length x , x , x , and x . The bottom side has segments of length x , x , x , and x . There are two corners with a 2ft gap between the sides. Arrows point from the equation to the perimeter of the pool.

www.tapintoteenminds.com @MathletePearce



Flipped Classroom With Assessment

eduCanon.com

www.tapintoteenminds.com @MathletePearce

Feedback

Please complete the survey to help me improve

<http://kylep.ca/sudburycatholic>

Your feedback is appreciated!

Reach Out!

Kyle Pearce

 kyle.pearce@outlook.com
 www.tapintoteenminds.com
 @MathletePearce