8.12 (G)

estimate the cost of a two-year and four-year college education, including family contribution, and devise a periodic savings plan for accumulating the money needed to contribute to the total cost of attendance for at least the first year of college



<1 min

	. Type the 3		
	2. Press X, T, θ button		
Ex: 3x + 2	3. Type + and then 2		
To display a table for y = 3x + 2	1. Go to y = (at the top left)		
	2. Enter 3x + 2 into y ₁ =		
Worse gu I	3. Press 2 nd Graph		
To display a graph for $y = 3x + 2$	1. Go to y = (at the top left)		
Above the B	2. Enter your equation into y 1		
A Above the 9	3. Press graph		
Clear	2. Select Pickrepros amod edit tusia (i		
Adjust your window	1. Press window		
decimal points and then the number	2. change xmin, xmax, ymin, ymax		
1 Procedurate and Test Great Line	3. Press graph again		
To return to home screen if you are in	2 nd Mode		
the graphing or table mode	Trees graph (1) in a flore is a part		
To delete something you typed in	Use right or left arrow to highlight		
error asserbs tuoy no au gog lilw	what you want to delete and then		
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To insert something you forgot	Highlight where the item should go		
(and press		
3. Prosa Entar	2 nd Delete (insert)		
Entering a set of data	1. Press Stat then press Enter		
2. Type ^ (right below clear)	2. Put x-values in L ₁		
2. Type the power	3. Put y-values in L ₂		
Ordering a set of data in a List	1. 2 nd Stat		
Ordering a set of data in a live	2. Move cursor to OPS		
2.5	3. Press 1 for ascending or Press 2		
	for descending		
2.5	4. 2 nd (Choose the list you want to		
6. Close Paranthanan	sort by pressing 1-6)		
6 Feder	5. Press 2 nd and the list you sorted		
	6. Enter		
	Follow steps above to enter the		
Creating a scatter plot for data			
	data		
	2. Go to y = and up arrow to highlight		
	plot 1		
	3. Press enter and down arrow		
	4. Zoom 9 and your points should		
	appear		
Write an equation for a set of data that	1. Follow steps above to enter data		
Write an equation for a set of data that	2. Press Stat, Right Arrow to		
you know is linear. (Linear	calculate, press 4, Enter		
Regression)	calculate, prood ij Enter		

Calculator Cheat Sheet (Zoom In)

Calculator Cheat Sheet

Operation	Button		
Reset Memory	2 nd +, 7, 1, 2		
Turn Off	2 nd On		
Darken Screen	2 nd Up arrow		
Lighten Screen	2 nd Down Arrow		
Open Parentheses	Above the 8		
Closed Parentheses	Above the 9		
To clear the home screen	Clear		
To enter a negative number like -5	Press (-) (at bottom right next to decimal point) and then the number		
Square a number	1. Press 5 1. Press (-5)		
Try squaring 5 and -5 Be sure to put -5 in ()	2. Press x ² 2. Press x ²		
Take the square root of a number	1. Type 2 nd x ² , a square root symbol		
what you want to delete and then	will pop up on your screen,		
$\sqrt{484}$	2. Type in the number you want to take the square root of and close the (
Huntight where the term about go	take the square root of and close the (
20d Thelete Search	3. Press Enter		
Raise a number to a power:	1. Type 4		
2. For revalues in L	2. Type ^ (right below clear)		
4 ³ In equipment at 8	3. Type the power		
To enter a fraction like $\frac{5}{9}$	Path 1 feld a ni stab to the a patheters		
10 enter a naction like 9	1. Open Parentheses		
1. Press 1 for escending of Press 2	2. 5		
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4. 2" (Chopse the list you want to	4. 9		
sort by pressing 1-8)	5. Close Parentheses 6. Enter		
5. Press 2 rd and the list you norted	6. Eillei		
. C. Entar	Path 2 (New Operating System)		
1. Follow steps above to enter the	1. Alpha y=		
BIRD	2 Choose between 1,2,or 3		
2. Go to y = and up arrow to high light	3. Then place the number in the		
F Joid	correct place		
To turn a decimal into a fraction	Math, Enter, Enter		
也被 A.州(本政	Second ^		
To use π	I wind at the section for a set of deta-ther.		
To recall the last thing you typed so	2 nd Enter		
you can edit it	Resilvental)		

Fluency Practice

- How many months are in a year?
- What is 9,000 ÷ 12?
- What is 8,254 875?

Problem Solving Strategies

- 1. Understand the Problem
 - Read the problem carefully (at least 2 to 3 times)
 - Highlight important information (what do I know)
 - Identify Math Clue words (words that tell you what math operations you need to use)
 - Underline what you need to find
- 2.Plan of Action (how you will solve this problem in steps)
 - First I will
 - Then I will
 - Next I will
 - Finally, I will
- 3. Show your work in steps (solve using your steps)
- 4. Check your answer (does my answer make sense? why)

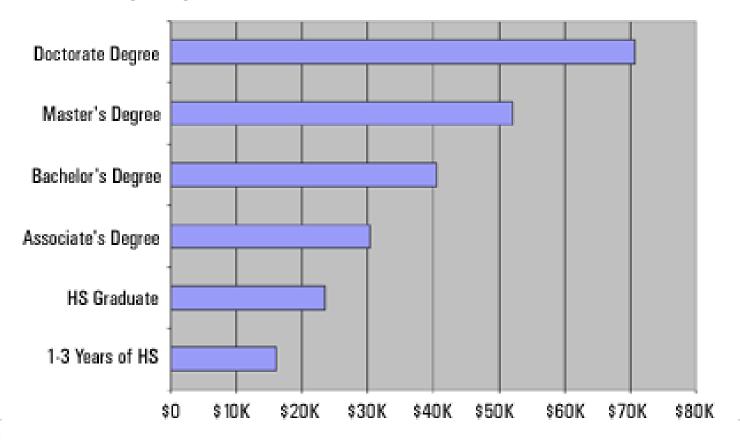
<3 min

College can be expensive

- This lesson is written to help you plan for college.
- College is **not** cheap, but investing in your education can help you make more money in the long run.
- According to the College Board, the average **annual** (just one year) cost of tuition and fees at a public university for the 2014-15 school year was \$9,139 for an in-state student and \$22,598 for out-of-state students. The average cost of a private university was much higher at \$31,231 for the same period.
- This amount doesn't include living expenses 1 min

Average salaries at different education levels

But throughout your entire career, you will likely make a lot more money with a college degree than without.



How to Save for College

- Put money into an account every month from now until you start college. Save gifts and family contributions.
- Let's say you put 400 dollars per month into a savings account for college.
- You save for 4 years. 4 years is the same as 48 months.
- $400 \times 48 = $19,200 \text{ total savings for college.}$
- This would pay for about 2 years of college tuition and fees!

I do

An eighth-grade student estimated that she needs \$8,800 for tuition and fees for each year of college. She already has \$5,000 in a savings account. The table shows the projected future value of the account in five years based on different monthly deposits.

Future Value of a Savings Account

Initial Balance (dollars)	\$5,000	\$5,000	\$5,000	\$5,000
Monthly Deposit (dollars)	\$100	\$200	\$300	\$400
Account Value in Five Years (dollars)	\$12,273	\$18,737	\$25,202	\$31,667

The student wants to have enough money saved in five years to pay the tuition and fees for her first two years of college. Based on the table, what is the minimum amount she should deposit in the savings account every month?

- A \$200
- B \$300
- C \$100
- D \$400

We do - Question 1

Alejandra and her family are discussing how to pay for her college education. The cost of tuition at the college that Alejandra wants to attend is \$9,000 per year. Alejandra's parents will pay 85% of the tuition cost every year, and she will pay the rest. Alejandra has one year to save enough money to attend her first year of college. What is the minimum amount of money she should save every month in order to reach her goal?

F \$637.50

G \$1,350.00

H \$112.50

J \$28.12

We Do – Question 2

Tuition for one year at a state university is about \$13,000. Devon would like to attend this university and will save money each month for the next 4 years. His parents will give him \$5,200 for his first year of tuition. Which plan shows the minimum amount of money Devon must save to have enough money to pay for his first year of tuition?

- A Save \$108.33 per month for the next 4 years
- B Save \$162.50 per month for the next 4 years
- C Save \$650.00 per month for the next 4 years
- D Save \$270.83 per month for the next 4 years

You Do

• Go back to Intervene to take your quiz!

Answer Key

- I Do A
- We Do 1 H
- We Do 2 − B