# INTERNATIONAL CELL PHONE PLAN

#### CELL PHONE COMPARISON



Name	Date	
1.7		

Cell phones have become the most necessary accessories that people carry around. As you enter adulthood, one of the first decisions that you may make is how you will handle your own cell phone plan. Although costs and incentives are always changing, using critical thinking skills to decide what makes the most financial sense is important. In this assignment you will use the costs of fictional cell phone companies to create linear functions and make decisions.

	Voice Unlimited (per month)	Text (\$/text)	Data (\$/mb)
ET&T	\$59.00	\$0.10	\$0.15
Horizon	\$39.00	\$0.35	\$0.12
Jog	\$49.00	\$0.21	\$0.08
M-Tobile	\$44.00	\$0.18	\$0.05

1.) Nadia the Texter needs to get a plan with Voice Unlimited and Texting, and she is comparing the four companies above. For each plan, write an equation that represents the total monthly cost *y* for a voice plan and *x* texts per month.

•	
	Linear Function with Texting
ET&T	
Horizon	
Jog	
M-Tobile	

2.) Nadia is a frequent texter and has sent an average of about 1,000 texts a month. Her personal goal is to cut her texting in half to 500 texts a month. In each of these situations, what would be the total cost of her plan?

	500 texts	1,000 texts
ET&T		
Horizon		
Jog		
M-Tobile		

3.) Which plan would you suggest that Nadia chooses? Explain.



#### INTERNATIONAL PRE-PAID PLANS

Name										_, [	Date								
												_							

When traveling internationally it is best to investigate options for your phone before you go. Without research and careful decision-making, you may receive a bill with hundreds of dollars of roaming fees. More and more, travelers are opting to purchase prepaid phones in the country they are traveling. Prepaid cell phone plans allow a buyer to purchase minutes, texts and megabytes upfront. When minutes, texts or megabytes are used up, they will need to buy more.

Use the data from the table below to create linear functions and make decisions around the world.

	Prepaid Phone	Voice (\$/minute)	Text (\$/text)	Data (\$/mb)
CANADA #	\$39.00	\$0.38	\$0.14	\$0.05
DENMARK	\$17.00	\$0.17	\$0.03	\$0.03
FINLAND -	\$25.50	\$0.10	\$0.10	\$0.03
HONG KONG	\$8.50	\$0.02	\$0.06	\$0.10
INDIA	\$9.00	\$0.01	\$0.02	\$0.01
JAPAH <b></b>	\$0	\$1.00	\$0.01	\$9.40
SOUTH KOREA	\$4.50	\$0.09	\$0.02	\$0.02
SWEDEN	\$10.00	\$0.04	\$0.04	\$0.01
TAIWAN	\$12.00	\$0.12	\$0.04	\$0.02
UNITED STATES	\$40.00	\$0.25	\$0.20	\$0.08
UNITED KINGDOM	<b>第 1 4</b> ペイン 1 1 1 1	\$0.36	\$0.15	\$0.01

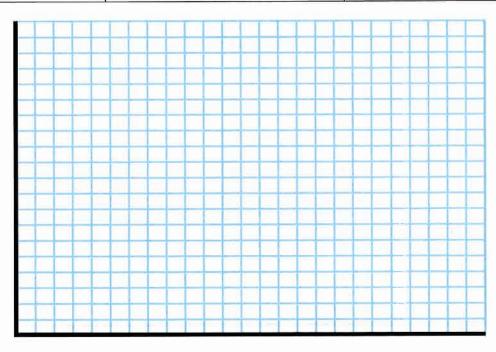
Data from the New American Foundation



#### TEXTING

A traveler plans to purchase a prepaid phone in each country and will purchase texts as necessary. Construct linear functions for each country where x is the number of texts and y is the total cost of the phone. Choose four of the countries to graph on the grid below. Be sure to choose your scale wisely. Label your axes and label your lines.

	Text Function	Total Cost for 200 texts
CANADA		
DENMARK		
FINLAND		
HONG KONG		
INDIA		
JAPAN		
SOUTH KOREA		
SWEDEN		
TAIWAH		
UNITED STATES		
UNITED KINGDOM		



# A traveler plans to purchase a prepaid phone in each country and will purchase minutes, texts and megabytes as necessary. Write a function (they are linear, but would be in four dimensions! Yikes!) for each country where a is the number of minutes, b is the number of texts, c is the number of megabytes and y is the total cost of the phone.

YOUR USAGE: Estimate how much you would need for a month-long trip to another country.

Minutes	Texts	Megabytes
	Function	Total Cost of Your Usage
CANADA		
DENMARK		
FINLAND		
HONG KONG		
INDIA		
JAPAN		
SOUTH KOREA		
SWEDEN		
TAIWAN		
UNITED STATES		

#### FOLLOW~UP

UNITED KINGDOM

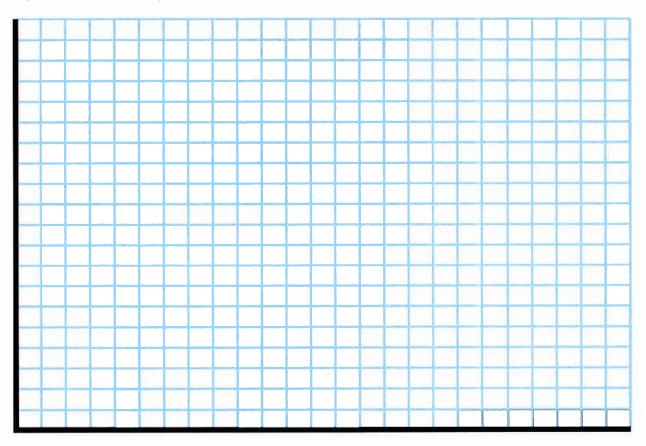
Which country will cost the most for your usage? Which country would cost the least?



#### MOBILE TRAVEL



On the coordinate grid, graph the *Voice Roaming Function* of the cel phone provider of your choice and the *Prepaid Voice Function* for the country of your choice. Be sure to choose your scale wisely. Label your axes and label your lines.



#### FOLLOW~UPS

- 1. Do the lines intersect? What is this point and what does it mean?
- 2. If you planned to use 10 minutes of call time, which plan is the better option?
- 3. If you planned to use 250 minutes of call time, which plan is the better option?

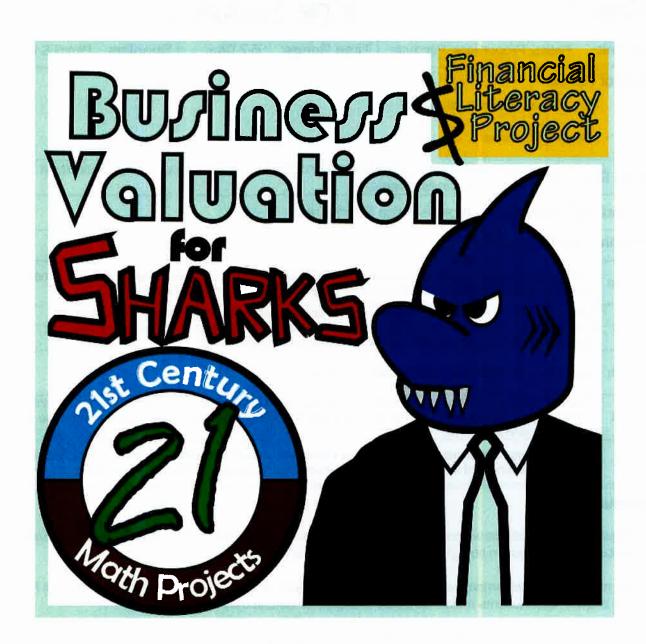
#### INTERNATIONAL CELL PHONE PLAN



#### Rubric

	Standards	Exemplary	Proficient	Developing
HSS-ID.B.7	interpret the rate of change of a linear association			
HSF-IF.C.7 graph functions expressed symbolically				
	Math Processes	Exemplary	Proficient	Developing
Skills &	accurately performs calculations			
Mechanics	demonstrates fluency with mathematical skills and processes			
Applications	accurately interprets word problems and addresses them with appropriate math skills			
	can articulate the meaning of calculations in the context of the problems.			
Use of Evidence &	can determine what evidence is appropriate to answer a question			
Analysis	utilizes mathematical outcomes to support their conclusions			

Comments:



#### Procedures (cont'd):

D.) In "Into the Tank", students will need to make a revenue projection, calculate their EBIT, determine a multiplier of their business, and calculate their valuation. They will have up to three offers from sharks that they have to consider by calculating the valuations.

To end the unit, students will be required to design a small business or create an invention, analyze the finances of their company and present a pitch in front of Sharks (other students) who can choose to invest (or not) in their product or service.

E) In "Swimming with the Sharks" (pages 15-24), students will create a small business plan or invention that they will pitch to a panel of Sharks in hopes that they get an investment (their grade depends on it!) They will be putting their knowledge of equity, revenue projections and valuation to the test all built around their own creation.

You should approve students's Think Tank worksheet, and then hand them a copy of their *Quarterly Finances* (pages 17-20).

Depending on the quality and creativity of the student's *Think Tank* assignment, they will be given one of these cards. Cards A-G show moderate revenue. H-K show significant, growing revenue. L-O show low, declining revenue. Within these groups they go from low expense to high expense for smaller to larger companies. There are 15 possibilities overall. *Print two or three sets per class*.

Students will use these finances to project for the rest of the calendar year, estimate a multiplier based on the *Multiplier Chart* and determine what they believe is an accurate valuation of their company. Finally, before they are ready to pitch they must complete *My Finances* and determine the equity offering for their business.

Before students enter the tank, they must have a product pitch ready (energy and visuals help!) and they must know their numbers!

In order to get a deal, they must get at least the dollar amount that they are asking for, but they CAN negotiate the percentage of equity. So they need to choose carefully.

F) Students will then pitch their projects in front of a panel of Sharks. You can do this as a whole class, but it would likely work best in small groups of 5 or 6. This is also a unique opportunity to invite outside guests into the class. 1 student will pitch as an Entrepreneur while the others are the Sharks who have \$500,000 to invest. Hand out to students "Shark Notes" which the Sharks will use to determine their own valuations of the Entrepreneur's business.

Students will complete the bottom of the *My Financials* page with a reflection as the entrepreneur and will complete a reflection on *Shark Notes* as a Shark. All parts should be collected.

\* Aspects of the project can be completed independently. The entire project does not need to be completed to have a great learning experience, though it is suggested because it will best scaffold the skills and context.



Trish plans to sell off 40% of her fast food restaurant business. If the business has been appraised for \$350,000, how much money does she expect to raise?



Doyle has been offered \$70,000 for 80% of his landscaping business. If he has his business appraised at \$105,000, is this a good deal?

Doyle land/caping Bu/ine/

Tripiti is looking for a partial owner to take a 25% stake in her pet store business, which is valued at \$90,000. She has an offer of \$15,000. Would this be enough or would she need to find another investor?



I ripiti

Shabazz is looking to move closer to his grandchildren and is looking to sell his successful food cart business. He has two offers from potential partners:



Shabazz Surfride Food

Cart Business

A.)\$35,000 for 80% of the business -or-

B.)\$40,000 for 90% of the business

Which offer places a higher valuation on his business?

A business's valuation isn't the exact same number as its EBIT. Typically, a *multiplier* is used in a formula to compute a valuation. A multiplier takes into account values of similar companies and the market.

There are positives that increase a multiplier such as: proprietary products (owning the patent or trademark), weak competition, diversified products and customers and opportunities for growth.

Negative effects on a multiplier may be things like: unoriginal products or services, strong competition or a weak market for the product, or needing financial support. Typically small businesses will have a valuation of 2.0 to 6.0x their EBIT value.

#### Help these 3 individuals determine the valuation of their company.



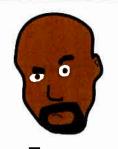
Aminata

Multinational Shipping

& Receiving Company

Aminata's company *Cargo-Pros* prides itself on shipping and receiving hazardous materials for a diverse range of consumers. In her field, she doesn't have much competition, which has led to annual revenues of \$4,500,000 and expenses of \$1,400,000.

EBIT	
Multiplier	Valuation
3.5x	



Tyrone
Honey farm

Tyrone runs a family operated honey farm, which provides 70% of the honey for the Midwest. Sweet Honey Boo Boo is a recognizable brand, and the bottle is in the shape of a bear (which he has a patent on). Last year's revenue was \$1,300,000 and the expenses were \$30,000.

EBIT	
Multiplier	Valuation
4.2x	



Jessica Ink Cartridge Refill Business Jessica's business Refill-It refurbishes old ink cartridges for a wide variety of printers. Due to the amount of competition, Jessica is considering selling the business, but is unsure what it is worth. Last year's revenue was \$75,000 and the expenses were \$48,000.

EBIT	
Multiplier	Valuation
1.8x	

#### Project the revenue for the year to estimate the EBIT of each business, and consider valuations from similar businesses to calculate a valuation. (Remember: EBIT \* Multiplier = Valuation)



#### Charlie **Bathroom** Remodeling Company

Charlie is seeking investors so he's trying to estimate the value of his company.

	Annual
Estimated Annual Expenses	\$2,250,000

Previous Y1 Revenue: \$3,189,000 Previous Y2 Revenue: \$3,312,000

	Q1	g2	Q3	Q4	Annual
Revenue (\$)	650,000	1,280,000	1,080,000		

EBIT (Revenue - Expenses)

Valuation of Similar Companies (use to determine a multiplier) Multiplier				
Company A	Company B Company C for			
EBIT: \$5,800,000	00,000 EBIT: \$630,000 EBIT: \$3,750,000		Valuation	
Valuation:	Valuation:	Valuation:		
\$15,000,000	\$1,200,000	\$9,875,000		
Multiplier:	Multiplier:	Multiplier:		

Valuation



Safiyo Authentic West African Restaurant

Safiyo is moving and will need to sell her business, so she needs a valuation.

	Annual
Estimated Annual Expenses	\$85,000

Previous Y1 Revenue: \$310,000 Previous Y2 Revenue: \$290,000

	Q1	Q2	Q3	Q4	Annual
Revenue (\$)	74,000	72,000	78,000		

EBIT (Revenue - Expenses)

Valuation of Simila	r Companies (use to dete	rmine a multiplier)	Multiplier
Company A Company B Company C for			
EBIT: \$150,000 EBIT: \$520,000		EBIT: \$850,000	Valuation
Valuation: Valuation: Valuation:			
\$280,000	\$910,000	\$1,750,000	
Multiplier:	Multiplier:	Multiplier:	
Valuation			



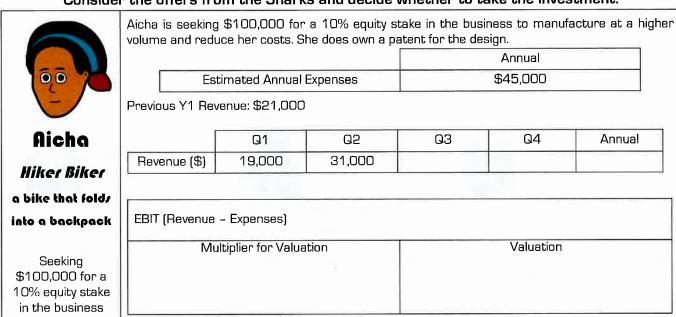
# Into the TANK...

Name	Date	

For some small business owners and inventors, one investment can be the difference between making it and breaking it. On the show *Shark Tank*, entrepreneurs go before a panel of wealthy investors (the Sharks) to pitch their product or idea. The entrepreneurs must enter the tank with an investment amount and a percentage of equity that they are offering. Some are able to pitch their way toward getting a life-changing investment and others are... well, eaten alive.

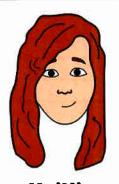
The investors are not there to give handouts and are interested in ideas or products that they believe they can make money off of. Their successful careers in business have laid a foundation of shrewd negotiation, a mastery of valuation and equity and a lack of patience for people who go in unprepared with their financial numbers! They haven't gotten to their success by being nice to everyone they cross paths with, and if they feel the entrepreneur is wasting their time or that their idea is weak, they will tell them – right to their face – sometimes brutally. Oh, the life of a shark.

#### Consider the offers from the Sharks and decide whether to take the investment.



	Ms. Leopard 🥻	Mr. Blue 🥻	Mr. Hammer 🌋
U	Your valuation is way off. There's no	Ms. Leopard is right, your value is	This is an innovative product with a
J	way your business today is worth	off, but your product is interesting	niche market. I have connections in
ï	\$1,000,000. Maybe in the future,	and you have a patent. I'll give you	the outdoor sporting goods
	but not today. I'm out.	the \$100,000 but for 30% of your	retailers, and I can sell this. I'll give
	· 1	company because that is what	you \$450,000 for your entire
		you're worth.	business and the patent.

Which offer gives her the best valuation? Should Aicha accept any of the offers or are the valuations too different from hers? Should she counter?



Kaitlin

Jam/ter Jean/
a pair of jean/ with

Atylish embroidery

Seeking \$20,000 for a 25% equity stake in the business Kaitlin is seeking \$20,000 for a 25% equity stake in the business to get into more distributors and reduce her costs. She does not own any patents.

	Annual	
Estimated Annual Expenses	\$28,000	

Previous Y1 Revenue: \$63,000 Previous Y2 Revenue: \$62,000

	Q1	Q2	Q3	Q4	Annual
Revenue (\$)	21,000	14,000	19,000		

EBIT (Revenue - Expenses)

Valuation of Simil	ar Companies (use to dete	rmire a multiplier)	Multiplier
Company A	Company B	Company C	for
EBIT: \$56,000	EBIT: \$120,000	EBIT: \$850,000	Valuation
Valuation:	Valuation:	Valuation:	
\$75,000	\$195,000	\$1,319,000	
Multiplier:	Multiplier:	Multiplier:	
	3.7.1		

Valuation

#### Ms. Leopard



Mr. Blue



Mr. Hammer



There's no market more difficult than the blue jean market. Three companies control the entire thing. I have connections with one of them and could potentially bring your product to them. This would take a great time investment from me. I will offer you the \$20,000, but for 60% of the company.

Ms. Leopard's valuation is:

The design is neat, but I think your valuation is high. The jean market is ultra-competitive and virtually impossible to break into. That said, I know my daughters would like those jeans. I will offer you \$25,000, but for 50% of the company.

Mr. Blue's valuation is:

There is nothing proprietary about this product. Someone could come along and rip off your design and there's nothing you can do about it. I'm out.

Which offer gives Kaitlin the best valuation? Should she accept any of the offers or are the valuations too different from hers? Should she counter?



# Swimming with THE SHARKS

Name		Date	
	<del></del>		

Many educational experts agree that modern education is not allowing students enough opportunities for creativity. Thus they end up either bored out of their minds OR completely dependent on someone telling them what to do every minute of their ife OR somewhere in between. Employers are concerned that this is a missing ingredient in the new generations of workers. Now is our chance to fix that (at least a little bit).

You must create a small business plan or invention that you will pitch to a panel of Sharks in hopes that you get an investment (your grade depends on it!). You will be putting your knowledge of equity, revenue projections and valuation to the test all built around your own creation.

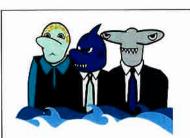
Once you have an approved idea on the *Think Tank* worksheet, your teacher will hand you a copy of your *Quarterly Finances*. The better your idea, the more likely your teacher will be to give you stronger finances. You will use these finances to project for the rest of the calendar year, estimate a multiplier based on the *Multiplier Chart* and determine what you believe is an accurate valuation of your company. Finally, before you are ready to pitch, complete *My Finances* and determine the equity offering for your business.

Before you enter the tank, you must have a product pitch ready (energy and visuals help!) and you must know your numbers! If you're caught reading everything from a paper, you will prove to be an unreliable business partner.

In order to get a deal, you must get at least the dollar amount that you are asking for, but you CAN negotiate the percentage of equity. So choose carefully.

## Quarterly finances

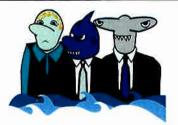
Depending on the quality and creativity of the student's Think Tank Assignment, they will be given one of these cards. Cards A-G show moderate revenue. H-K show significant, growing revenue. L-O show low, declining revenue. Within these groups they go from low expense to high expense for smaller to larger companies. There are 15 possibilities overall. *Print two or three sets per class*.



Estimated Annual \$25,000
Expenses

Previous Y1 Revenue: \$44,000 Previous Y2 Revenue: \$52,000

	Q1	Q2	Q3	Q4	Annual
Revenue (\$)	12,000	13,500	15,000		



Estimated Annual \$60,000 Expenses

Previous Y1 Revenue: \$95,000 Previous Y2 Revenue: \$118,000

	Q1	Q2	Q3	Q4	Annual
Revenue (\$)	28,000	31,000	29,500		



Estimated Annual \$75,000

Previous Y1 Revenue: \$74,000 Previous Y2 Revenue: \$95,000

	Q1	Q2	Q3	Q4	Annual
Revenue (\$)	26,500	28,200	28,800		

Δ

В



Estimated Annual \$24,000 Expenses

Previous Y1 Revenue: \$84,500 Previous Y2 Revenue: \$108,800

	Q1	Q2	Q3	Q4	Annual
Revenue (\$)	29,500	34,750	41,400		



Estimated Annual \$48,000

Previous Y1 Revenue: \$51,230 Previous Y2 Revenue: \$95,350

	Q1	Q2	Q3	Q4	Annual
Revenue (\$)	41,750	45,250	52,500		



Estimated Annual \$106,000 Expenses

Previous Y1 Revenue: \$120,500 Previous Y2 Revenue: \$185,900

	Q1	Q2	Q3	<b>Q</b> 4	Annual
Revenue (\$)	67,430	75,425	86,800		



Estimated Annual \$235,000 Expenses

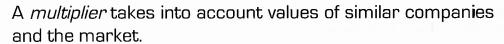
Previous Y1 Revenue: \$450,000 Previous Y2 Revenue: \$675,000

-	Q1	Q2	Q3	Q4	Annual
Revenue (\$)	235,700	254,500	271,800		

K

Н

### Multipliers





#### Estimate Your Multiplier

# (Start Here & Add) How Unique is Your Product or Business?

It has been around forever	It's an improvement of a product or business (no patent)	l would have a patent and a small market	l wou <b>l</b> d have a patent and a large market	lt will change the world
0	1.0	2.0	3.0	4.0

#### How Much Competition Do You Have?

Heavy competition	Moderate competition, but I have a unique spin on it.	Virtually no competition. Completely innovative
0	+0.25	+0.5

#### Will You Have a Wide Range of Products or Services?

A single product or service	A couple products of services are offered.	A wide range of products or services
0	+0.1	+0.25

#### Are there opportunities to grow the product or business?

It is pretty much a standalone idea.	There are a couple other ideas that are connected	There is a wide range of products or services that make sense with the business.	
0	+0.1	+0.25	

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#### Shark Notes



You will be on a panel for a set of pitch presentations, and you will have \$500,000 to invest. Use the space below to take notes and estimate your own valuations of the business that you see.

Name of Business:	
Revenue / Expense N	otes:
EBIT (Revenue - Exper	
Multiplier for	Valuation
Valuation	15.12.00
Valdadion	
Equity Offering (F	ow much equity would you offer? How different is it than what is being asked?)
investment _	% equity
value	100%
Name of Business:	
Revenue / Expense N	
EBIT (Revenue - Exper	
Multiplier for	Valuation
Valuation	Valuation
valuation	
Equity Offering (F	how much equity would you offer? How different is it than what is being asked?)
investment _	_ % equity
value -	100%
Name of Business:	
Y	
Revenue / Expense N	
EBIT (Revenue – Exper	
Multiplier for	Valuation
Valuation	
Equity Offering (F	How much equity would you offer? How different is it than what is being asked?]
', '	. , ,
investment _	% equity
value	100%

#### Business Valuation for Sharks

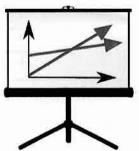


#### Rubric

	Standards	Exemplary	Proficient	Developing
7.RP.A.3	use proportional relationships to solve multistep ratio and percent problem			
7.EE.B.4	use variables to represent quantities in a real-world or mathematical problem			
	Math Processes	Exemplary	Proficient	Developing
Skills &	accurately performs calculations			
Mechanics	demonstrates fluency with mathematical skills and processes			
Applications	accurately interprets word problems and addresses them with appropriate math skills			
Арріїсацопа	can articulate the meaning of calculations in the context of the problems.			
Use of	can determine what evidence is appropriate to answer a question			
Evidence & Analysis	utilizes mathematical outcomes to support their conclusions			

Comments:





# The Break-Even Point

	Name	Date	

When taking on a new business, it's extremely important to be profitable. All new businesses begin in debt and after months or years of work they may finally break-even. This is the day that a business owner is finally out of debt and is a call for a celebration! However, many businesses never reach this point and close. According to research from the University of Tennessee, 50% of all small businesses fail within the first four years. The most common reason for failure? Poor financial planning and incompetence.

Below are small businesses that are opening soon. They have planned for the necessary startup costs, budgeted for monthly expenditures and have projected monthly revenue. You are an accountant and have created linear models to project the *revenue* and *expenses* of each business. In each model, *x* represents months. When will the business below finally get out of debt? Would you suggest starting the business given your calculations? Why or why not?

	All-Star Daycare	Burrito Barn	Cell Resell	Dinner Food Spot
Start-Up Cost	\$125,000	\$45,000	\$16,000	\$55,000
Projected Monthly Expenses	\$52,000	\$25,000	\$6,500	\$32,000
Projected Monthly Revenue	\$58,500	\$26,500	\$6,250	\$36,000
Expense Model				
Revenue Model				
Break-Even Point				



# Revenue & Expenses

Name	Date	S

Entrepreneurs come from all walks of life and create businesses in all corners of the world. These new businesses may be stores, services, restaurants or online boutiques. When starting a business, it is extremely important to pay careful attention to the financial matters. The two simplest figures that businesses use are *revenue* and *expenses*. Revenue is all of the money a business makes and expenses are all of the money a business spends. The difference between the revenue and expenses is either *profit* or *debt*.

After meeting a few entrepreneurs, they each made claims and predictions about their businesses after the first six months of the year. Do these statements make any sense when you look at their actual finances? Use their financial data and linear regression to determine a linear model for the data. Use the linear models to evaluate the claim made by the entrepreneur.

#### Swaggtronics

(customized headphones)

Claim: Swaggtronics believe that by month 12 they will have a year-to-date revenue of \$78,000.

#### Year-to-Date Revenue

Month	Jan (x=1)	Feb	Mar	Apr	May	Jun	Linear Model
YTD revenue (\$)	1,673	3,975	5,038	7,840	10,030	15,230	

#### Follow-Ups

1. Based on the linear model, will Swaggtronics earn \$78,000 in revenue by the end of the year?

2. A linear model for the expenses for Swaggtronics is y = 2,419x + 34,649. When would they break-even with their business?

#### Ninja Gear

#### (ninja style apparel)

Claim: Ninja Gear believes by month 9 they'll have more revenue than all prior years combined (\$21,500).

#### Year-to-Date Revenue

Month	Jan	Feb	Mar	Apr	May	Jun	Linear Model
YTD revenue (\$)	1,184	2,580	3,213	5,518	7,831	9,921	

#### Follow-Ups

- 1. Based on the linear model, will Ninja Gear earn \$21,500 in revenue by the end of the 9th month?
- 2. A linear model for the expenses for Ninja Gear is y = 451x + 14,410. When would they breakeven with their business?

#### **Bamboozlers**

#### (sunglasses with frames made of bamboo)

**Claim:** Bamboozlers believe that by the 12<sup>th</sup> month they will break-even.

#### Year-to-Date Expenses

Month	Jan	Feb	Mar	Apr	May	Jun	Linear Model
YTD expenses (\$)	113,419	132,319	175,271	209,310	238,109	273,197	

#### Year-to-Date Revenue

Month	Jan	Feb	Mar	Apr	May	Jun	Linear Model
YTD revenue (\$)	4,892	8,910	35,190	79,219	113,920	176,208	

#### Follow-Ups

- 1. Based on the linear models, will Bamboozlers break-even by the end of the year?
- 2. Describe the meanings of the slopes of the linear models in the context of this problem.

Expenses

Revenue

#### Enrich

#### (educational afterschool program)



#### Expenses (\$)

Month	Jan	Feb	Mar	Apr	May	Jun	Linear Model
YTD expenses (\$)	84,760	100,890	113,820	131,491	145,629	161,029	

#### Revenue (\$)

Month	Jan	Feb	Mar	Apr	May	Jun	Linear Model
YTD revenue (\$)	17,290	35,190	62,419	91,818	107,301	126,390	

#### Calculations

- 1. Based on the current projections, when will the business break-even?
- 2. What is the current projected profit (revenue expenses) in...

18 months	
36 months	
60 months	

#### Recommendation (provide evidence)

#### International Fusion

(themed family restaurant)



#### Expenses (\$)

Month	Jan	Feb	Mar	Apr	May	Jun	Linear Model
YTD expenses (\$)	58,455	74,188	91,412	107,428	122,976	138,299	

#### Revenue (\$)

I	Month	Jan	Feb	Mar	Apr	May	Jun	Linear Model
1	YTD revenue (\$)	16,491	33,518	50,210	72,519	97,549	105,210	

#### Calculations

- 1. Based on the current projections, when will the business break-even?
- 2. What is the current projected profit (revenue expenses) in...

18 months	
36 months	
60 months	

#### Recommendation (provide evidence)

#### **Entrepreneur Projections**



#### Rubric

10. 14° 18° 1	Standards	Exemplary	/ Proficient	Develop ng
HSA-REI.C.6	solve systems of linear equations exactly and approximately			
HSS4D.B.6a	fit a function to data			
	use functions fitted to data to solve problems in the context of the data			
	Math Processes	Exemplary	Proficient	Developing
Skills & Mechanics	accurately performs calculations			
	demonstrates fluency with mathematical skills and processes			
Applications	accurately interprets word problems and addresses them with appropriate math skills			
	can articulate the meaning of calculations in the context of the problems.			
Use of Evidence & Analysis	can determine what evidence is appropriate to answer a question			
	utilizes mathematical outcomes to support their conclusions			

Comments: