



STUDENT COMPANION

NAME:





How many weeks would it take Terry to save enough money to purchase the E5 gaming system?

Please make the following assumptions:

- 7% sales tax will be applied
- There are 180 days in a school year
- 5 days make up one 1 school week



If Terry saved from the start of the school year to the end, how much money would he save including the original \$125?

TGA: EXTEND YOUR THINKING 1 continued

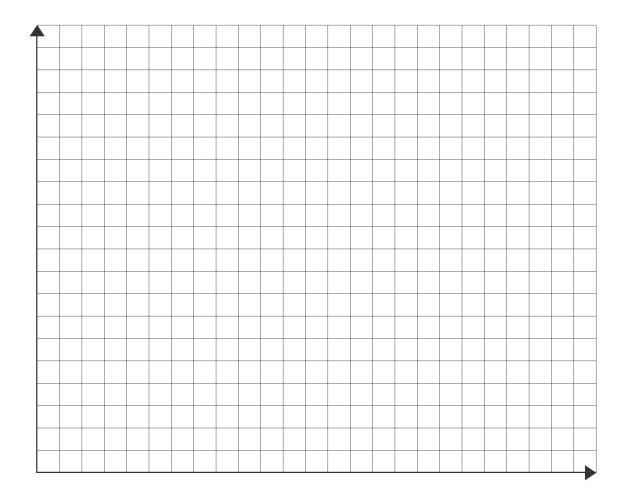
Write a linear equation that describes Terry's plan.	
Equation:	

Construct a table of values for Terry's plan and graph the relationship. Identify the slope and the y-intercept. Is the relationship proportional? Why or why not?

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TGA: EXTEND YOUR THINKING 1 continued





TGA: EXTEND YOUR THINKING 1 continued

Slope:					
Y-Intercept:					
Construct two similar tri line. Describe how the t	_			-	e slope of the
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How does the slope of th	ne line directly	apply to Ter	ry's plan?		
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If The Game Depot is 2.75 miles away from Terry's apartment, which cab service should he select? Explain the strategy you utilized to ascertain your solution.

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Relaxi Taxi

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How many miles would Terry have to travel in the taxicab for the cost to be the same regardless of which service he selects? Describe the strategy you utilized to arrive at this determination.

A: EXTEND YOUR THINKING 2 continued
escribe how Terry could use systems of equations to help him termine which taxicab service he should select.
Think e Matics

TGA: EXTEND YOUR THINKING 2 continued

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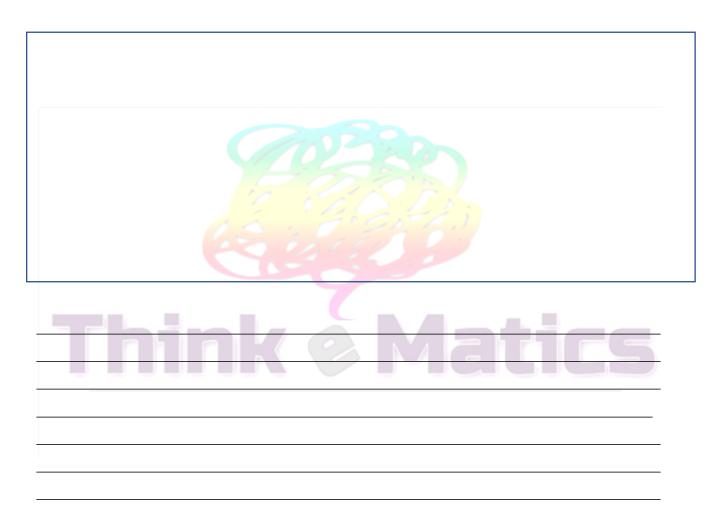


If Syclon released the E5 at \$499 and then marked up the price to \$549, what was the percent increase of the gaming console? Describe how to determine the percent increase of the E5.

Think & Matics	
What would be the total cost if Terry purchases the E5 and Cyber Troopers: Robot Wars, if Terry applies the 15% discount to his total 20 not omit the 7% sales tax.	— —

TGA: EXTEND YOUR THINKING 3 continued

Terry assumed that if he received an additional 10% off the already reduced price which included a 15% reduction, he would actually be receiving a 25% discount. Is Terry's assumption correct? Why or why not?





How much did Terry pay in taxicab fares for both trips combined? (Round to the nearest penny)?

If Terry wanted to tip the driver 20%, describe a strategy Terry could utilize to quickly estimate how much tip he could give the driver.

If the update was 20% complete after 15 minutes, what percent of the update is complete every minute? Explain the significance of knowing what percent of the update is completed

TGA: EXTEND YOUR THINKING 4 continued

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TGA: EXTEND YOUR THINKING 4 continued

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TGA: EXTEND YOUR THINKING 4 continued

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