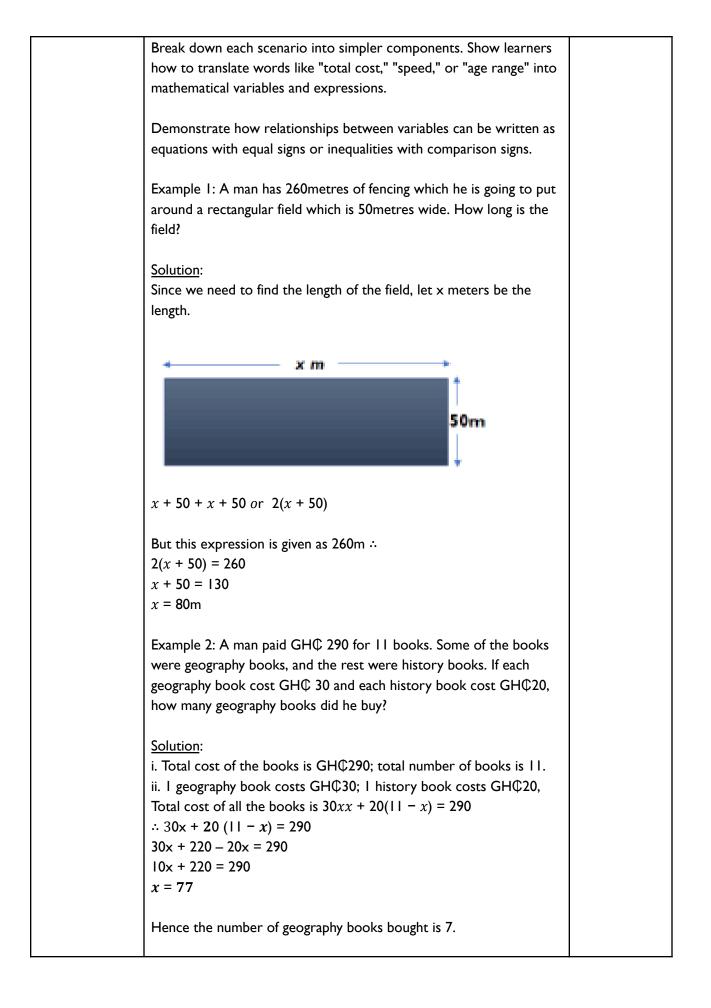
SECOND TERM WEEKLY LESSON NOTES WEEK 9

Week Ending:		DAY:		Subject: Mathematics	
Duration: 60MINS	5			Strand: Algebra	
Class: B9 Class Size:		Class Size:		Sub Strand: Variables and Equ	ations
Content Standard: B9.2.3.1 Demonstrate understanding of single variable linear inequalities with rational coefficients Performance Indicator: Learners can translate word problems into mathematical equations and inequalities. References: Mathematics Curriculum Pg. 193				1.3 Solve real-life problems ng linear equations and	` '
New words:					
Phase/Duration PHASE I: STARTER	Learners Activities Engage learners with a "guess the mystery number" game. Give clues that lead to an equation, and let learners solve for the unknown number. Discuss real-life examples where they might use math in their daily lives (e.g., budgeting, cooking, sports). Ask them if they ever encounter situations where equations or inequalities might be helpful.			Resources	
PHASE 2: NEW LEARNING	Present sever equations and Plann budge Calcu Dete Guide learner	l inequalities. Exa ing a movie night et. Ilating the distanc rmining the age ra	l word p mples co with po e travele ange elig	roblems involving linear	manipulatives like counters or algebra tiles



	Take feedback from learners and summarize the lesson.	
REFLECTION	learners what they have learnt during the lesson.	
PHASE 3:	scoring an average of 80 or higher in three tests are put in grade A? Use peer discussion and effective questioning to find out from	
	must she score in the third test to be put in Grade A if all learners	
	A student scores 70 and 76 marks in two tests. How many marks	
	Assessment	
	context of the original problem.	
	Celebrate finding the solutions and discuss their meaning in the	
	when necessary.	
	Encourage the use of manipulatives or visuals to aid understanding	
	and using appropriate operations.	
	Emphasize proper steps like isolating variables, combining like terms,	
	Guide learners through the process of solving their mathematical equations or inequalities.	
	moving on.	
	Encourage learners to ask questions and clarify any confusion before	
	Example 4:	
	Hence, $2 < x < 14$. That is, the third side has length between 2cm and 14cm.	
	Also, $6 + x < 8$ giving $x > 2$. Also, $8 + x > 6$ which gives $x > -2h$	
	If the third side is x cm long then, 6 + 8 > x giving x < 14	
	than the length of the third side	
	Note: The sum of the lengths of the two sides of a triangle is greater	
	Example 3: Two sides of a triangle have lengths 6 cm and 8 cm. What is the length of the third side?	

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PHASE 2: NEW LEARNING	information, a Break down e how to transl mathematical Demonstrate equations wit Example 1: If Grade A, and	and recognizing we each scenario into ate words like "to variables and exp how relationship h equal signs or i a student needs a	which ma o simpler otal cost pressions os betwe nequaliti an averag he first t	en variables can be written as es with comparison signs. ge of 85 in four tests to get hree tests are 80, 90, and 88,	manipulatives like counters or algebra tiles

Solution	
(a) Total needed marks: 85 * 4 = 340 marks.	
(b) Existing marks: 80 + 90 + 88 = 258 marks.	
(c) Marks needed in fourth test: 340 - 258 = 82 marks.	
Example 2: In a class, Grade A requires an average of 75 or higher in two tests. A student scored 72 on the first test. What is the minimum score needed on the second test to get Grade A?	
Solution	
(a) Minimum average for Grade A: 75.	
(b) Minimum total marks needed: 75 * 2 = 150 marks.	
(c) Marks needed in second test: 150 - 72 = 78 marks (minimum).	
Example 3: A school gives Grade A to learners who score an average of 82 or higher, or a total of 250 marks or more in three tests. A student scored 85 and 80 on the first two tests. What is the minimum score needed for the third test to get Grade A?	
Solution	
(a) Option I: Minimum average needed: 82.	
(b) Option 1: Minimum total marks needed: 82 * 3 = 246 marks.	
(c) Option 1: Marks needed in third test: 246 - 85 - 80 = 81 marks (minimum).	
(d) Option 2: Minimum total needed: 250 marks.	
(e) Option 2: Marks needed in third test: 250 - 85 - 80 = 85 marks (minimum).	
(f) Comparing options: Either 81 or 85 can secure Grade A,	
depending on whether the student wants to meet the minimum	
average or minimum total.	
Example 4: A bakery offers a discount if the total bill reaches $C50$ or	
more. You already purchased items for $C32$. How much more do	
you need to spend to get the discount?	
Colution	
Solution	
(a) Total needed for discount: $C50$.	
(b) Amount needed to spend further: $050 - 32 = 18$.	
Assessment	
I. A bookstore offers a 15% discount if you buy more than 3 fiction	
books. Each fiction book costs C10, and each non-fiction book	

	-	
	costs CI5. If you spend C85 without exceeding the discount	
	limit, how many fiction books did you buy?	
	2. A library charges different fees for fiction and non-fiction books.	
	Fiction books cost $C2$ each, and non-fiction books cost $C3$ each.	
	A student borrowed 7 books in total and paid ¢17. How many	
	fiction and non-fiction books did they borrow?	
	3. At a school fundraiser, you sell homemade cookies for ¢1.50	
	each and cupcakes for $C2.00$ each. Your goal is to raise $C60$. If	
	you only sold 40 items in total, how many of each type did you sell?	
	4. A toy store offers a special pricing structure where the price of a toy is equal to the child's age multiplied by C3. If a child with 7 years old and another child with 9 years old spend C54 together, how many toys did they buy in total?	
	5. Five friends decide to buy a used textbook together. The book costs ¢30, and they want to split the cost equally. However, one	
	friend forgets to pay their share. How much does each of the	
	remaining friends need to pay now?	
PHASE 3:	Use peer discussion and effective questioning to find out from	
REFLECTION	learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	