

5.	Circle the first step in solving t	he inequality. The	en underline the	second step.
	Add 7 to each side.	ld 7 to each side. Divide each side		Divide each side by –6 and reverse the inequali
	Subtract 7 from each side.	Multiply eacl	n side by 6.	Multiply each side by –( and reverse the inequali
6.	Use your answers to Exercise 5	i to solve the ineq	uality.	
7.	Check the endpoint by substitive related equation, $-6a - 7 =$	uting into the 17.	<b>8.</b> Check the into the o	e inequality symbol by substituring inequality, $-6a - 7 \le$
P	roblem 2 Writing and	Solving a Mu	ulti-Step Ineq	uality
P Gc tha	roblem 2Writing andof It?You want to make a rectn 48 ft of trim for the banner. We have a state	Solving a Mu cangular banner t What are the poss	<b>Ilti-Step Ineq</b> hat is 18 ft long.	<b>uality</b> You have no more banner?
Pi Gc tha 9.	<b>roblem 2</b> Writing and of It? You want to make a rect n 48 ft of trim for the banner. W Circle the formula for the perio	Solving a Mu angular banner to What are the poss meter of a rectang	<b>ulti-Step Ineq</b> hat is 18 ft long. ible widths of the le.	<b>uality</b> You have no more banner?
Pi Gc tha 9.	<b>roblem 2</b> Writing and of It? You want to make a rect in 48 ft of trim for the banner. W Circle the formula for the perin $C = 2\pi r$ A	Solving a Mu tangular banner to What are the poss meter of a rectang $= \ell w$	<b>ulti-Step Ineq</b> hat is 18 ft long. The ible widths of the determined by $d = rt$	<b>uality</b> You have no more banner? $P = 2\ell + 2w$
Pi Gc tha 9.	<b>roblem 2</b> Writing and <b>of If?</b> You want to make a rect <b>n 48 ft of trim for the banner. W</b> Circle the formula for the perin $C = 2\pi r$ A Write an algebraic expression with a length of 18 ft and a wide	Solving a Mu tangular banner to What are the poss meter of a rectang $= \ell w$ to describe the dis th of <i>w</i> ft.	<b>alti-Step Ineq</b> hat is 18 ft long. The stance around a r	<b>uality</b> You have no more banner? $P = 2\ell + 2w$ ectangular banner
Pi Gc tha 9. 10.	<b>roblem 2</b> Writing and <b>of lf?</b> You want to make a rect <b>n 48 ft of trim for the banner. V</b> Circle the formula for the perint $C = 2\pi r$ A Write an algebraic expression with a length of 18 ft and a wide The distance around the bann	Solving a Mu angular banner to What are the poss meter of a rectang $= \ell w$ to describe the dia th of <i>w</i> ft. er should be at le	<b>ulti-Step Ineq</b> hat is 18 ft long. The ible widths of the ible widths of the ible widths of the ible widths are ible widths at $d = rt$ stance around a rest are ible widths are ible widt	<b>uality</b> You have no more banner? $P = 2\ell + 2w$ ectangular banner eet.
Pr Gc tha 9. 10.	<b>roblem 2</b> Writing and <b>of lf?</b> You want to make a rect <b>n 48 ft of trim for the banner. V</b> Circle the formula for the perin $C = 2\pi r$ A Write an algebraic expression with a length of 18 ft and a wid The distance around the bann Use the expression you wrote i inequality to represent the situ	Solving a Mu tangular banner to What are the poss meter of a rectang $= \ell w$ to describe the dis th of w ft. er should be at le in Exercise 10 and lation described if	<b>ulti-Step Ineq</b> <b>hat is 18 ft long.</b> The problem of the second	<b>Uality</b> You have no more banner? $P = 2\ell + 2w$ ectangular banner eet. from Exercise 11. Write an hen solve your inequality.
Pr Go tha 9. 10. 11. 12.	<b>roblem 2</b> Writing and <b>of If?</b> You want to make a rect <b>n 48 ft of trim for the banner. V</b> Circle the formula for the perin $C = 2\pi r$ A Write an algebraic expression with a length of 18 ft and a wide The distance around the bann Use the expression you wrote i inequality to represent the situ	Solving a Mu angular banner to Vhat are the poss meter of a rectang $= \ell w$ to describe the dis th of w ft. er should be at le n Exercise 10 and tation described i	<b>ast / at most</b> 48 ft information in the problem. The second sec	<b>uclity</b> You have no more banner? $P = 2\ell + 2w$ ectangular banner eet. from Exercise 11. Write an hen solve your inequality.
Pr Go tha 9. 10.	<b>roblem 2</b> Writing and <b>of If?</b> You want to make a rect <b>n 48 ft of trim for the banner. W</b> Circle the formula for the perin $C = 2\pi r$ A Write an algebraic expression with a length of 18 ft and a wide The distance around the bann Use the expression you wrote i inequality to represent the situ	Solving a Mu angular banner to Vhat are the poss meter of a rectang $= \ell w$ to describe the dis th of <i>w</i> ft. er should be at le n Exercise 10 and tation described in	<b>ast / at most</b> 48 ft the information	You have no more banner? $P = 2\ell + 2w$ ectangular banner eet. from Exercise 11. Write an hen solve your inequality.

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## Problem 3 Using the Distributive Property



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**Got It?** What are the solutions of the inequality  $9 + 5n \le 5n - 1$ ?

- **19.** Solve the inequality  $9 + 5n \le 5n 1$ .
- **20.** The inequality  $9 + 5n \le 5n 1$  is always / never true.
  - So, the solution is all real numbers / there is no solution.



**23.** Do you agree with your friend? Explain. What if the inequality symbol were  $\geq$ ?

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Math Success						
Check off the vocabulary words that you understand.						
unulti-step inequalities	properties of inequality	solutions				
Rate how well you can solve multi-s	step inequalities.					
Need to review 0 2 4 6	8 10 Now I get it!					