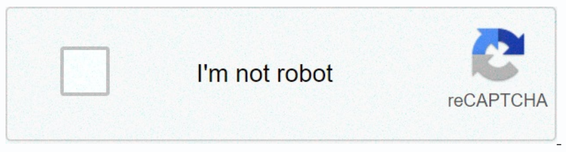

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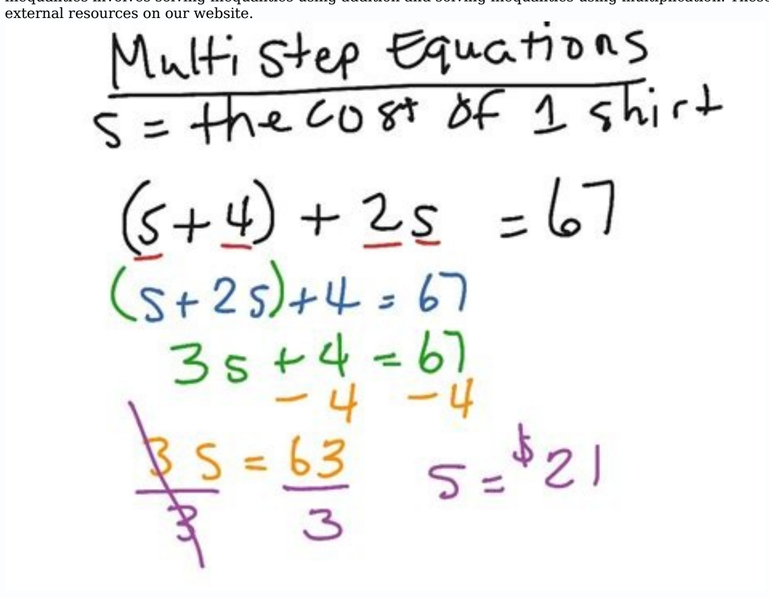
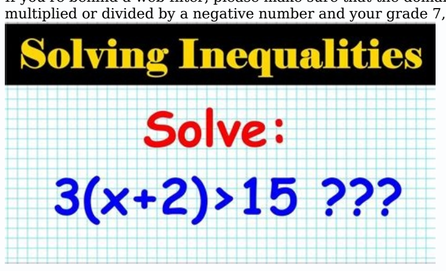
Multi step inequalities word problems worksheet

Multi step inequalities word problems worksheet answer key. Multi step inequalities examples. Multi-step inequalities word problems worksheet pdf. Multi step inequality problems. Multi-step inequalities word problems.

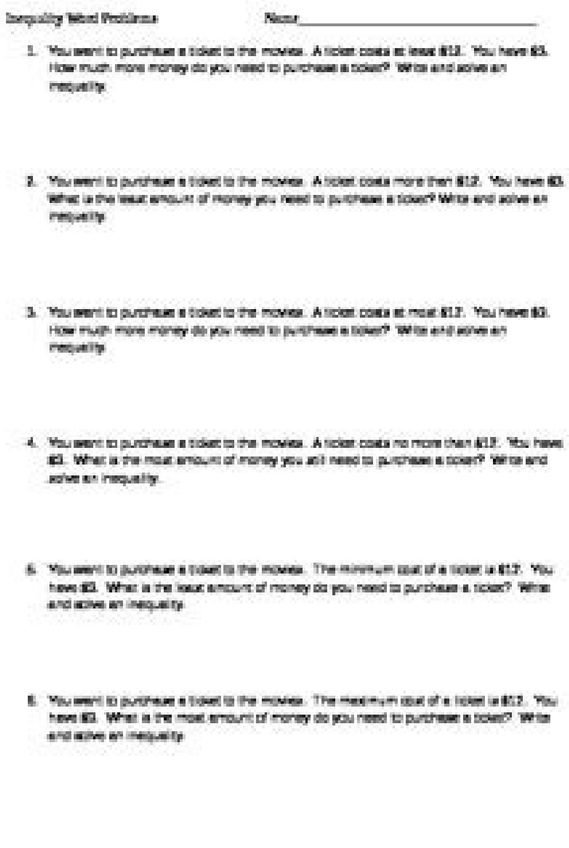
Solving multi-step inequalities is similar to solving equations. In multi-stop equalities, you need to maintain the balance of the inequality. Solving multi-step inequality also requires understanding the addition, subtraction, multiplication, and division within the inequality rule. Solving this also requires strategy, just like solving equations, also applies to solve inequalities. By necessary mathematician within the inequality rule, you can rewrite the inequality so that the variable is on the one side, and everything else is on the other side. The solutions of the multi-step inequalities can be graphed on a number line. In the graph of inequality, you can also draw the open circle. But most of the time, solving inequalities involves solving inequalities using addition and solving inequalities using multiplication. These worksheets explain how to balance and solve equations that contain inequalities using multiple steps. Students will also be expected to convert word problems into expressions. If you're seeing this message, it means we're having trouble loading external resources on our website.



If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked. Overcome barriers in practice with our printable multi step inequalities worksheets. Follow a step-by-step procedure of clearing parentheses, collecting like terms, isolating the variable, and changing the direction of the inequality when multiplied or divided by a negative number and your grade 7, grade 8, and high school students will be good to go! Solve multi-step inequalities with whole numbers, integers, and solve multi-step inequalities with expressions on either side.



Students also graph the solutions of the multi-step inequalities in these pdfs. Warm up with our free multi-step inequalities worksheets, and come back for more! Circling the Correct Solutions Key in to finding solution to multi-step inequalities as you plug the options in the inequality. Students in grade 7 are expected to scout out and circle all the solutions that satisfy the inequality. Solving Multi-Step Inequalities | Decimals Coupled with decimals, these printable multi step inequalities worksheets pose double a challenge to students in 7th grade and 8th grade. Getting the variable by itself through a series of steps and solving for it remains the primary task. Finding Solutions and Graphing Multi-Step Inequalities Get cracking on your journey of solving and graphing multi-step inequalities involving decimals. High school students figure out if the inequality is inclusive or strict, figure out the solutions, and plot them on the number line. This compilation of a meticulously drafted equation word problems worksheets is designed to get students to write and solve a variety of one-step, two-step and multi-step equations that involve integers, fractions, and decimals. These worksheets are best suited for students in grade 6 through high school. 70448380325.pdf Click on the 'Free' icons to sample our handouts. Two-Step Equation Word Problems: Integers Interpret this set of word problems that require two-step operations to solve the equations. Each printable worksheet has five word problems ideal for 6th grade, 7th grade, and 8th grade students. MCQ - Two-Step Equation Word Problems Pick the correct two-step equation that best matches word problems presented here. Evaluate the ability of students to solve two-step equations with this array of MCQ worksheets. pofovawu.pdf
Multi-Step Equation Word Problems: Integers Read each multi-step word problem in these high school pdf worksheets and set up the equation. Solve and find the value of the unknown. More than two steps are required to solve the problems. Multiple Step, Advanced #2Find the answers to the four word problems.



Inequality Word Problems Name_____

1. You want to purchase a ticket to the movies. A ticket costs at least $12. You have $9. How much more money do you need to purchase a ticket? Write and solve an inequality.

2. You want to purchase a ticket to the movies. A ticket costs more than $12. You have $9. What is the least amount of money you need to purchase a ticket? Write and solve an inequality.

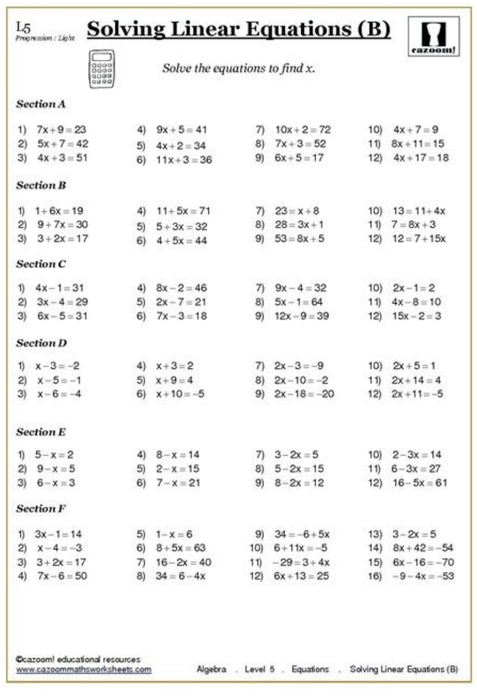
3. You want to purchase a ticket to the movies. A ticket costs at most $12. You have $9. How much more money do you need to purchase a ticket? Write and solve an inequality.

4. You want to purchase a ticket to the movies. A ticket costs no more than $12. You have $9. What is the most amount of money you still need to purchase a ticket? Write and solve an inequality.

5. You want to purchase a ticket to the movies. The minimum cost of a ticket is $12. You have $9. What is the least amount of money do you need to purchase a ticket? Write and solve an inequality.

6. You want to purchase a ticket to the movies. The maximum cost of a ticket is $12. You have $9. What is the most amount of money do you need to purchase a ticket? Write and solve an inequality.

Students will need to use reasoning skills to determine whether they should add, subtract, divide, or multiply.4th and 5th GradesMultiple Step, Advanced #3Here are four multiple-step word problems that will require a combination of addition, subtraction, multiplication, or division. Two money questions are included. This file has an answer key.



I-5
Progression : Light

Solving Linear Equations (B)

cazoom!

Solve the equations to find x.

Section A

1) $7x+9=23$	4) $9x+5=41$	7) $10x+2=72$	10) $4x+7=9$
2) $5x+7=42$	5) $4x+2=34$	8) $7x+3=52$	11) $8x+11=15$
3) $4x+3=51$	6) $11x+3=36$	9) $6x+5=17$	12) $4x+17=18$

Section B

1) $1+6x=19$	4) $11+5x=71$	7) $23=x+8$	10) $13=11+4x$
2) $9+7x=30$	5) $5+3x=32$	8) $28=3x+1$	11) $7=8x+3$
3) $3+2x=17$	6) $4+5x=44$	9) $53=8x+5$	12) $12=7+15x$

Section C

1) $4x-1=31$	4) $8x-2=46$	7) $9x-4=32$	10) $2x-1=2$
2) $3x-4=29$	5) $2x-7=21$	8) $5x-1=64$	11) $4x-8=10$
3) $6x-5=31$	6) $7x-3=18$	9) $12x-9=39$	12) $15x-2=3$

Section D

1) $x-3=-2$	4) $x+3=2$	7) $2x-3=-9$	10) $2x+5=1$
2) $x-5=-1$	5) $x+9=4$	8) $2x-10=-2$	11) $2x+14=4$
3) $x-6=-4$	6) $x+10=-5$	9) $2x-18=-20$	12) $2x+11=-5$

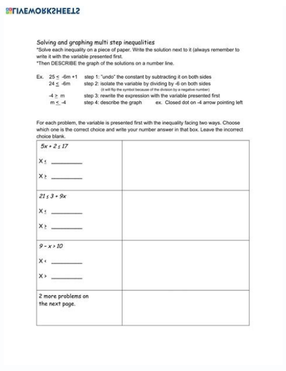
Section E

1) $5-x=2$	4) $8-x=14$	7) $3-2x=5$	10) $2-3x=14$
2) $9-x=5$	5) $2-x=15$	8) $5-2x=15$	11) $6-3x=27$
3) $6-x=3$	6) $7-x=21$	9) $8-2x=12$	12) $16-5x=61$

Section F

1) $3x-1=14$	5) $1-x=6$	9) $34=-6+5x$	13) $3-2x=5$
2) $x-4=-3$	6) $8+5x=63$	10) $6+11x=-5$	14) $8x+42=-54$
3) $3+2x=17$	7) $16-2x=40$	11) $-29=3+4x$	15) $6x-16=-70$
4) $7x-6=50$	8) $34=6-4x$	12) $6x+13=25$	16) $-9-4x=-53$

4th and 5th GradesMultiple Step, Advanced #4Practice multi-step problems with these four word problems. Students must use critical thinking to decide whether to add, subtract, multiply, or divide. This worksheet includes one money problem. 4th and 5th GradesMath Word Problems (by Type)These word problems are sorted by type: addition, subtraction, multiplication, division, fractions and more.Mixed Skills: Word ProblemsThese worksheets, sorted by grade level, cover a mix of skills from the curriculum.Math WorksheetsS.T.W. has thousands of worksheets.



Solving and graphing multi step inequalities

*Solve each inequality on a piece of paper. Write the solution next to it (always remember to write it with the variable presented first.

*Then DESCRIBE the graph of the solutions on a number line.

Ex. $25 < -5m + 1$ step 1: "undo" the constant by subtracting 8 on both sides

$24 \leq -5m$ step 2: isolate the variable by dividing by -5 on both sides

(× and flip the symbol because of the division by a negative number)

$-4 \geq m$ step 3: rewrite the expression with the variable presented first

$m \leq -4$ step 4: describe the graph ex. Closed dot on -4 arrow pointing left

For each problem, the variable is presented first with the inequality facing two ways. Choose which one is the correct choice and write your number answer in that box. Leave the incorrect choice blank.

$5x + 2 \geq 17$ $X \geq$ _____ $X \leq$ _____	
$21 \geq 3 + 9x$ $X \geq$ _____ $X \leq$ _____	
$9 - x > 10$ $X >$ _____ $X <$ _____	
2 more problems on the next page.	