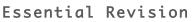
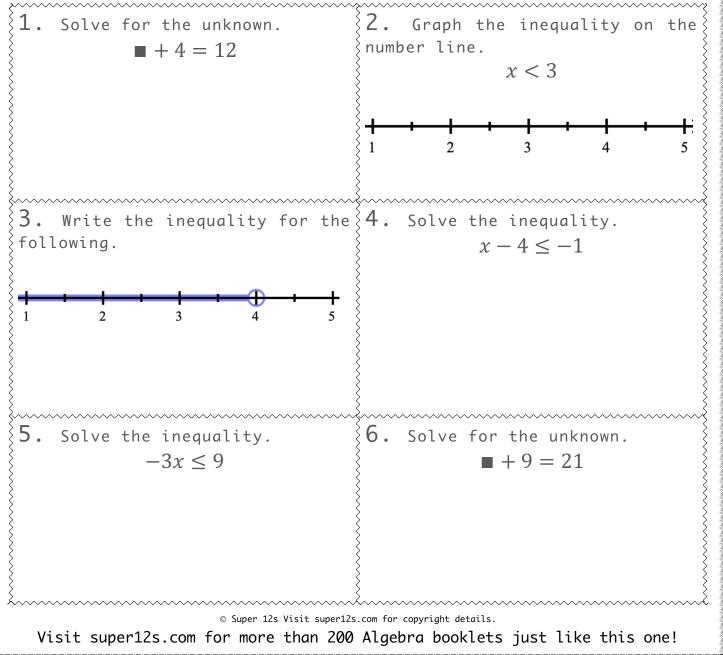
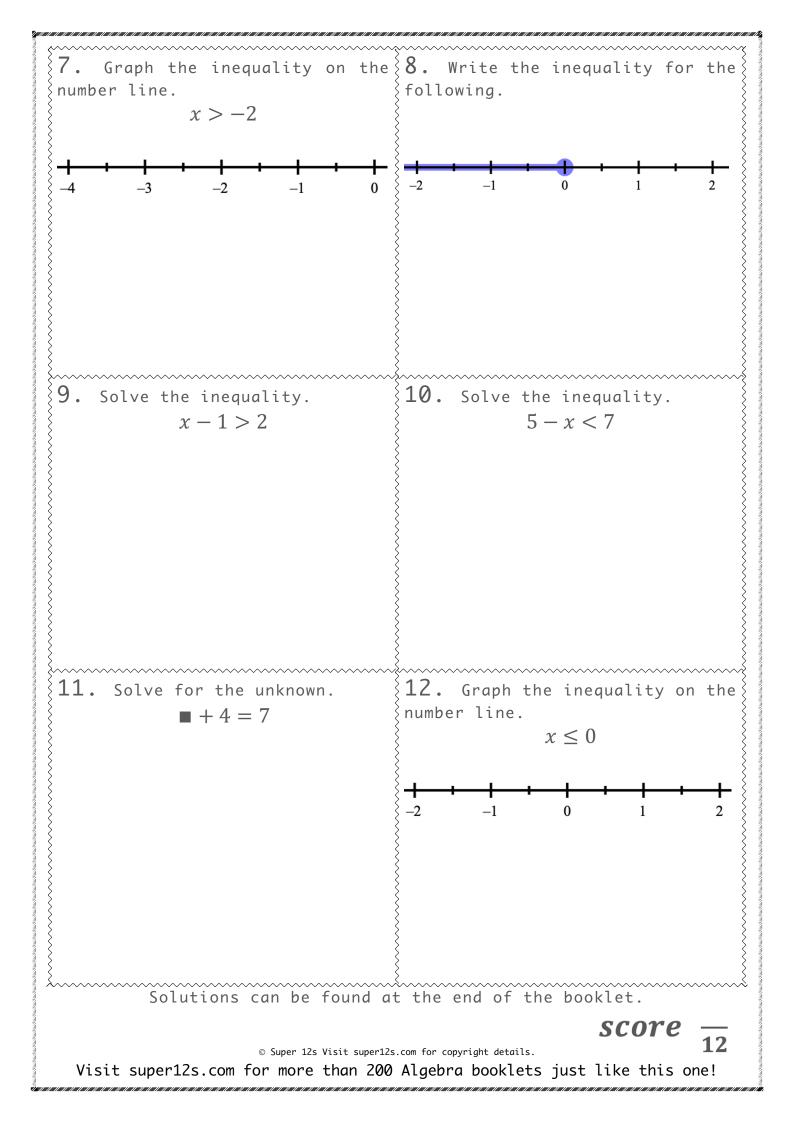


**Skill description:** Solving inequalities involving multiple terms with positive and negative numbers.







## STRATEGIES TO SOLVE THE PROBLEMS

Solving inequalities and solving equations have many similarities. The critical difference is:

If you multiply or divide by a negative, the inequality sign reverses.

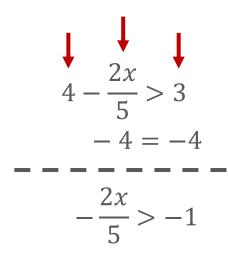
## Example 1

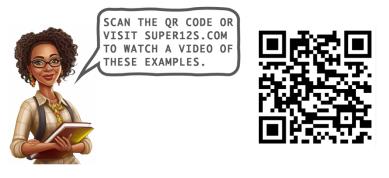
Solve for the unknown.

$$4 - \frac{2x}{5} > 3$$

## Step 1

To isolate the term containing the variable x, subtract 4 from both sides of the inequality. Note that the inequality sign remains the same.



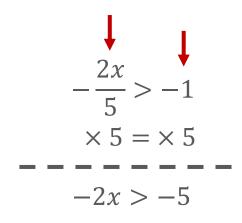


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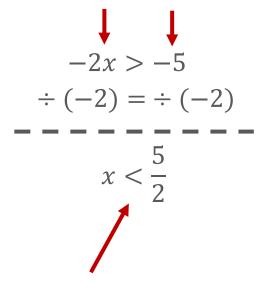
Step 2

To isolate the variable x multiply both sides of the equation by 5. Note that the inequality sign remains the same.



## Step 3

To isolate the variable x divide both sides by -2. As we are dividing by a negative, we must reverse the inequality sign.





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