YOU ARE TRYING TO SEPARATE THE NUMBERS AND VARIABLES, BUT BEFORE YOU START MOVING THINGS AROUND CAREFULLY LOOK AT THE EQUATION AND THINK ABOUT WHICH MOVES WOULD SEPARATE THE NUMBERS AND VARIABLES IN THE SHORTEST AMOUNT OF TIME.

Now your turn. Describe what steps you would take to solve the equation.
This problem was done with too many steps.


1. $\frac{t}{6}-9=15$
2. $45-7 x=10$

First I would add nine to both sides.
Then I would MULTIPLY BOTH SIDES BY 6.
3. $56=37+\frac{h}{5}$

First I would SUBTRACT BOTH SIDES BY 37.
Then I would MULTIPLY BOTH SIDES BY 5.
\# 3

First I would SUBTRACT BOTH SIDES BY 45.
Then I would DIVIDE BOTH SIDES BY NEGATIVE 7.
4. $9 w=56-5 w$

First I would ADD 5w TO BOTH SIDES.
Then I would DIVIDE BOTH SIDES BY 14.
Solve the equations.
5. $9 g+98=2 g$
6. $72-3 k=-162$
7. $82=42+\frac{Z}{4}$

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g=-14
$$

$$
k=78
$$

$$
z=160
$$

8. $2 e=95-17 e$
9. $42-\frac{h}{5}=187$
10. $91+7 u=21 u$

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e=5
$$

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h=-725
$$

$$
u=6.5
$$

11. $70-9 n=781$
12. $8 b=-9+23 b$
13. $\frac{x}{8}-12=12$

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n=-79
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$b=0.6$
$x=192$

