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## The Method of Problem Solving

1. Understand the problem
2. Devise a plan
3. Carry out the plan
4. Look back and check(Does the solution make sense?)


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## Example: Working Backward 00:0000

Find the unknown number.
Start with an unknown number. Triple it and then subtract 5 . Now, take the new number and double it but then subtract 47. If you take this latest total and quadruple it you have 60 .
What was the unknown number?
The final amount was 60,
The final amount was 60,
Divide by 4 to undo quadruple = 15
Divide by 4 to undo quadruple = 15
Add 47 to get 62, then divide by 2=31}\mathrm{ .
Add 47 to get 62, then divide by 2=31}\mathrm{ .
Add 5 to get 36 and divide by 3=12
Add 5 to get 36 and divide by 3=12

## Example: Solution

Solution
The original unknown number was 12 .
Step 4 Look back and check. We can take 12 and run through the computations to get 60 .

