

Work Backwards

Advanced — ANSWER KEY

Undo three steps — including $\times$ or $\div$.

Think: Undo $\times$ with $\div$, and $\div$ with $\times$. Reverse the order of the steps.

1. Work backwards to find the starting number. Undo each step!

1) I thought of a number, then multiplied by 5, then added 33, then added 10, and got 83. What was my number?



My number = 8

2) I thought of a number, then added 38, then divided by 3, then added 38, and got 60. What was my number?



My number = 28

3) I thought of a number, then subtracted 6, then added 9, then multiplied by 2, and got 18. What was my number?



My number = 6

4) I thought of a number, then multiplied by 5, then added 27, then subtracted 4, and got 33. What was my number?



My number = 2

5) I thought of a number, then subtracted 3, then added 6, then multiplied by 2, and got 50. What was my number?



My number = 22

6) I thought of a number, then multiplied by 4, then added 25, then subtracted 4, and got 29. What was my number?



My number = 2

7) I thought of a number, then divided by 3, then added 11, then added 8, and got 26. What was my number?



My number = 21

8) I thought of a number, then subtracted 4, then divided by 3, then subtracted 2, and got 2. What was my number?



My number = 16