

Work Backwards

Advanced

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

Name: _____ Date: _____

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 subtracted 15, then added 35, then multiplied by 4, and got 176. What was my number?

$$\boxed{} \xrightarrow{-15} \boxed{} \xrightarrow{+35} \boxed{} \xrightarrow{\times 4} \boxed{176}$$

My number = _____

3) I thought of a number, then added 38, then subtracted 17, then multiplied by 5, and got 215. What was my number?

$$\boxed{} \xrightarrow{+38} \boxed{} \xrightarrow{-17} \boxed{} \xrightarrow{\times 5} \boxed{215}$$

My number = _____

5) I thought of a number, then added 37, then divided by 4, then subtracted 5, and got 5. What was my number?

$$\boxed{} \xrightarrow{+37} \boxed{} \xrightarrow{\div 4} \boxed{} \xrightarrow{-5} \boxed{5}$$

My number = _____

7) I thought of a number, then added 34, then subtracted 11, then multiplied by 4, and got 132. What was my number?

$$\boxed{} \xrightarrow{+34} \boxed{} \xrightarrow{-11} \boxed{} \xrightarrow{\times 4} \boxed{132}$$

My number = _____

2) I thought of a number, then added 11, then subtracted 13, then divided by 3, and got 3. What was my number?

$$\boxed{} \xrightarrow{+11} \boxed{} \xrightarrow{-13} \boxed{} \xrightarrow{\div 3} \boxed{3}$$

My number = _____

4) I thought of a number, then multiplied by 4, then subtracted 8, then subtracted 18, and got 42. What was my number?

$$\boxed{} \xrightarrow{\times 4} \boxed{} \xrightarrow{-8} \boxed{} \xrightarrow{-18} \boxed{42}$$

My number = _____

6) I thought of a number, then subtracted 4, then added 11, then multiplied by 4, and got 44. What was my number?

$$\boxed{} \xrightarrow{-4} \boxed{} \xrightarrow{+11} \boxed{} \xrightarrow{\times 4} \boxed{44}$$

My number = _____

8) I thought of a number, then subtracted 8, then multiplied by 2, then added 22, and got 58. What was my number?

$$\boxed{} \xrightarrow{-8} \boxed{} \xrightarrow{\times 2} \boxed{} \xrightarrow{+22} \boxed{58}$$

My number = _____