

## Solutions

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**2.1**  $2 \times 4 + 3 = 11$ .

**2.2** Undo  $+3$ , then undo  $\times 2$ :  $(11-3)/2=4$ .

**2.3**  $2 \times (-1) + 3 = 1$ .

**3.1** False. The rule maps 4 to 11. Its inverse subtracts 3 and then divides by 2:  $(11-3)/2=4$ . Subtracting 3 alone gives 8.

Local review guidance: show the chosen method; give the checked result; explain the condition or failed shortcut. This is authored classroom guidance.