UNIT 2 • REASONING WITH LINEAR EQUATIONS AND INEQUALITIES Lesson 4: Solving Equations and Inequalities

Problem-Based Task 2.4.1: Magic Number

Coaching

- a. What number did you think of?
- b. What expression represents doubling your number?
- c. How can you show adding 6 to the expression from part b?
- d. How can you show taking half of the expression from part c?
- e. How can you show subtracting the number you originally thought of from the expression in part d?
- f. How can you show that the result of the operations in parts b through e will always result in 3?
- g. How can you modify your equation in part f to work with any number?
- h. How can your equation from part g be simplified?