

Number Trick

Use after Lesson 7.5.

Follow the six steps of this number trick. Repeat the trick three times.

- a. Choose any number. \Rightarrow b. Subtract 4. \Rightarrow c. Multiply by 2. \Rightarrow
 d. Add 8. \Rightarrow e. Divide by 2. \Rightarrow f. Subtract the original number.

First Number Chosen _____ Final Result _____

Second Number Chosen _____ Final Result _____

Third Number Chosen _____ Final Result _____

Let n stand for the chosen number. Write an expression for each of the above steps a.–f.

- a. _____ b. _____ c. _____
 d. _____ e. _____ f. _____

Inequalities

Use after Lesson 7.7.

Look at the inequality below.

$$4 < n < 7$$

This inequality states that “ n is a number greater than 4 but less than 7.”

When n is an integer, its values are 5 and 6.

For each expression, the values of n are integers. List all possible values of n .

- | | |
|------------------------------|---------------------------------|
| 1. $1 < n < 5$
_____ | 2. $-5 < n < -1$
_____ |
| 3. $-2 < n < 3$
_____ | 4. $-1 < n < 9$
_____ |
| 5. $5 > n > 2$
_____ | 6. $1 > n > -6$
_____ |
| 7. $3 > n > -3$
_____ | 8. $-1 < n < 1$
_____ |
| 9. $2 < n + 1 < 10$
_____ | 10. $-10 < n - 1 < -6$
_____ |