

Number Rules

1. You are given the following rule: $\text{number} \longrightarrow (\text{number} \times 2) + 1$

What will happen to these numbers if you follow this rule?

- a. $4 \longrightarrow$ b. $7 \longrightarrow$ c. $10 \longrightarrow$
d. $1 \longrightarrow$ e. $100 \longrightarrow$ f. $20 \longrightarrow$

2. Use the following rule: $\text{number} \longrightarrow (\text{number} \div 3) - 1$

What will happen to these numbers if you follow this rule?

- a. $6 \longrightarrow$ b. $9 \longrightarrow$ c. $27 \longrightarrow$
d. $300 \longrightarrow$ e. $0 \longrightarrow$ f. $99 \longrightarrow$

3. Use the following rule: $n \longrightarrow n + 1$

- a. $8 \longrightarrow$ b. $4 \longrightarrow$ c. $98 \longrightarrow$
d. $1000 \longrightarrow$ e. $0 \longrightarrow$ f. $-4 \longrightarrow$

4. Use the following rule: $n \longrightarrow 5n$

- a. $8 \longrightarrow$ b. $4 \longrightarrow$ c. $10 \longrightarrow$
d. $1000 \longrightarrow$ e. $0 \longrightarrow$ f. $-4 \longrightarrow$

5. Use the following rule: $n \longrightarrow 4n + 1$

What will happen to these numbers if you follow this rule?

- a. $8 \longrightarrow$ b. $4 \longrightarrow$ c. $20 \longrightarrow$
d. $1000 \longrightarrow$ e. $0 \longrightarrow$ f. $-4 \longrightarrow$