

Lesson 1-5 • Apply Day

Reinforce Understanding

1.5 • Part II

I can find patterns and pattern rules, use them to make generalizations, and check my solutions with a table of values.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Pattern rule: multiply the position by 2, then add 1. Complete the table for positions 1, 2, 3 — then use the rule to predict the value at position 10.

Complete each step, then write the final answer.

1. Position 1: $1 \times 2 + 1 = \underline{\hspace{2cm}}$.
2. Position 3: $3 \times 2 + 1 = \underline{\hspace{2cm}}$.
3. Position 10 — no need to list every row: $10 \times 2 + 1 = \underline{\hspace{2cm}}$.

Answer: _____

2. Pattern rule: multiply the position by 9, then add 2. Complete the table for positions 1, 2, 3 — then use the rule to predict the value at position 10.

Complete each step, then write the final answer.

1. Position 1: $1 \times 9 + 2 = \underline{\hspace{2cm}}$.
2. Position 3: $3 \times 9 + 2 = \underline{\hspace{2cm}}$.
3. Position 10 — no need to list every row: $10 \times 9 + 2 = \underline{\hspace{2cm}}$.

Answer: _____

3. Pattern rule: multiply the position by 4, then add 3. Complete the table for positions 1, 2, 3 — then use the rule to predict the value at position 10.

Complete each step, then write the final answer.

1. Position 1: $1 \times 4 + 3 = \underline{\hspace{2cm}}$.
2. Position 3: $3 \times 4 + 3 = \underline{\hspace{2cm}}$.
3. Position 10 — no need to list every row: $10 \times 4 + 3 = \underline{\hspace{2cm}}$.

Answer: _____