Name: _____ Date: _____

# Numerical Patterns and Ordered Pairs

Grade 5 | Generating two patterns, comparing their terms and forming ordered pairs | Version 2 of 10

*Use each rule to fill in the table. Then compare the two patterns and write the ordered pair for the last pair of terms (Rule A term, Rule B term).*

**1. Rule A: Start at 0. Add 6. Rule B: Start at 0. Add 30.**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Rule A** | 0 | | 12 | 18 | | |
| **Rule B** | 0 | | 60 | 90 | | |

Each Rule B term is _____ times the Rule A term. Last ordered pair: ( _____ , _____ )

**2. Rule A: Start at 0. Add 14. Rule B: Start at 0. Add 42.**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Rule A** | 0 | 14 | | 42 | | |
| **Rule B** | 0 | 42 | | 126 | | |

Each Rule B term is _____ times the Rule A term. Last ordered pair: ( _____ , _____ )

**3. Rule A: Start at 0. Add 7. Rule B: Start at 0. Add 28.**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Rule A** | 0 | | | 21 | 28 | |
| **Rule B** | 0 | | | 84 | 112 | |

Each Rule B term is _____ times the Rule A term. Last ordered pair: ( _____ , _____ )

**4. Rule A: Start at 0. Add 12. Rule B: Start at 0. Add 48.**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Rule A** | 0 | 12 | 24 | | | |
| **Rule B** | 0 | 48 | 96 | | | |

Each Rule B term is _____ times the Rule A term. Last ordered pair: ( _____ , _____ )

**5. Rule A: Start at 0. Add 15. Rule B: Start at 0. Add 60.**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Rule A** | 0 | | | | 60 | 75 |
| **Rule B** | 0 | | | | 240 | 300 |

Each Rule B term is _____ times the Rule A term. Last ordered pair: ( _____ , _____ )

# Numerical Patterns and Ordered Pairs - ANSWER KEY

Grade 5 | Generating two patterns, comparing their terms and forming ordered pairs | Version 2 of 10

*Use each rule to fill in the table. Then compare the two patterns and write the ordered pair for the last pair of terms (Rule A term, Rule B term).*

**1. Rule A: Start at 0. Add 6. Rule B: Start at 0. Add 30.**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Rule A** | 0 | **6** | 12 | 18 | **24** | **30** |
| **Rule B** | 0 | **30** | 60 | 90 | **120** | **150** |

Each Rule B term is **5** times the Rule A term. **Last ordered pair: ( (30, 150) )**

**2. Rule A: Start at 0. Add 14. Rule B: Start at 0. Add 42.**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Rule A** | 0 | 14 | **28** | 42 | **56** | **70** |
| **Rule B** | 0 | 42 | **84** | 126 | **168** | **210** |

Each Rule B term is **3** times the Rule A term. **Last ordered pair: ( (70, 210) )**

**3. Rule A: Start at 0. Add 7. Rule B: Start at 0. Add 28.**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Rule A** | 0 | **7** | **14** | 21 | 28 | **35** |
| **Rule B** | 0 | **28** | **56** | 84 | 112 | **140** |

Each Rule B term is **4** times the Rule A term. **Last ordered pair: ( (35, 140) )**

**4. Rule A: Start at 0. Add 12. Rule B: Start at 0. Add 48.**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Rule A** | 0 | 12 | 24 | **36** | **48** | **60** |
| **Rule B** | 0 | 48 | 96 | **144** | **192** | **240** |

Each Rule B term is **4** times the Rule A term. **Last ordered pair: ( (60, 240) )**

**5. Rule A: Start at 0. Add 15. Rule B: Start at 0. Add 60.**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Rule A** | 0 | **15** | **30** | **45** | 60 | 75 |
| **Rule B** | 0 | **60** | **120** | **180** | 240 | 300 |

Each Rule B term is **4** times the Rule A term. **Last ordered pair: ( (75, 300) )**