Name: _____ Date: _____

Numerical Patterns and Ordered Pairs

Grade 5 | Generating two patterns, comparing their terms and forming ordered pairs | Version 10 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 10. Rule B: Start at 0. Add 40.

Rule A	0	10		30		
Rule B	0	40		120		

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

2. Rule A: Start at 0. Add 2. Rule B: Start at 0. Add 10.

Rule A	0			6		10
Rule B	0			30		50

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

3. Rule A: Start at 0. Add 14. Rule B: Start at 0. Add 56.

Rule A	0	14			56	
Rule B	0	56			224	

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

4. Rule A: Start at 0. Add 7. Rule B: Start at 0. Add 28.

Rule A	0		14			35
Rule B	0		56			140

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

5. Rule A: Start at 0. Add 14. Rule B: Start at 0. Add 28.

Rule A	0				56	70
Rule B	0				112	140

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 10 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 10. Rule B: Start at 0. Add 40.

Rule A	0	10	**20**	30	**40**	**50**
Rule B	0	40	**80**	120	**160**	**200**

Each Rule B term is **4** times the Rule A term. **Last ordered pair: ((50, 200) , _____)**

2. Rule A: Start at 0. Add 2. Rule B: Start at 0. Add 10.

Rule A	0	**2**	**4**	6	**8**	10
Rule B	0	**10**	**20**	30	**40**	50

Each Rule B term is **5** times the Rule A term. **Last ordered pair: ((10, 50) , _____)**

3. Rule A: Start at 0. Add 14. Rule B: Start at 0. Add 56.

Rule A	0	14	**28**	**42**	56	**70**
Rule B	0	56	**112**	**168**	224	**280**

Each Rule B term is **4** times the Rule A term. **Last ordered pair: ((70, 280) , _____)**

4. 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) , _____)**

5. Rule A: Start at 0. Add 14. Rule B: Start at 0. Add 28.

Rule A	0	**14**	**28**	**42**	56	70
Rule B	0	**28**	**56**	**84**	112	140

Each Rule B term is **2** times the Rule A term. **Last ordered pair: ((70, 140) , _____)**