Name: _____ Date: _____

Numerical Patterns and Ordered Pairs

Grade 5 | Generating two patterns, comparing their terms and forming ordered pairs | Version 1 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 5. Rule B: Start at 0. Add 10.

Rule A	0	5			20	
Rule B	0	10			40	

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

2. Rule A: Start at 0. Add 10. Rule B: Start at 0. Add 20.

Rule A	0	10			40	
Rule B	0	20			80	

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

3. Rule A: Start at 0. Add 8. Rule B: Start at 0. Add 24.

Rule A	0			24	32	
Rule B	0			72	96	

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

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

Rule A	0		8	12		
Rule B	0		24	36		

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 45.

Rule A	0	15				75
Rule B	0	45				225

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 1 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 5. Rule B: Start at 0. Add 10.

Rule A	0	5	**10**	**15**	20	**25**
Rule B	0	10	**20**	**30**	40	**50**

Each Rule B term is **2** times the Rule A term. **Last ordered pair: ((25, 50) , _____)**

2. Rule A: Start at 0. Add 10. Rule B: Start at 0. Add 20.

Rule A	0	10	**20**	**30**	40	**50**
Rule B	0	20	**40**	**60**	80	**100**

Each Rule B term is **2** times the Rule A term. **Last ordered pair: ((50, 100) , _____)**

3. Rule A: Start at 0. Add 8. Rule B: Start at 0. Add 24.

Rule A	0	**8**	**16**	24	32	**40**
Rule B	0	**24**	**48**	72	96	**120**

Each Rule B term is **3** times the Rule A term. **Last ordered pair: ((40, 120) , _____)**

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

Rule A	0	**4**	8	12	**16**	**20**
Rule B	0	**12**	24	36	**48**	**60**

Each Rule B term is **3** times the Rule A term. **Last ordered pair: ((20, 60) , _____)**

5. Rule A: Start at 0. Add 15. Rule B: Start at 0. Add 45.

Rule A	0	15	**30**	**45**	**60**	75
Rule B	0	45	**90**	**135**	**180**	225

Each Rule B term is **3** times the Rule A term. **Last ordered pair: ((75, 225) , _____)**