Name: _____ Date: _____

Numerical Patterns and Ordered Pairs

Grade 5 | Generating two patterns, comparing their terms and forming ordered pairs | Version 8 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 9. Rule B: Start at 0. Add 36.

Rule A	0				36	45
Rule B	0				144	180

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

2. Rule A: Start at 0. Add 15. Rule B: Start at 0. Add 75.

Rule A	0			45		75
Rule B	0			225		375

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

3. Rule A: Start at 0. Add 12. Rule B: Start at 0. Add 36.

Rule A	0				48	60
Rule B	0				144	180

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 14.

Rule A	0		14	21		
Rule B	0		28	42		

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

5. Rule A: Start at 0. Add 9. Rule B: Start at 0. Add 45.

Rule A	0	9	18			
Rule B	0	45	90			

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 8 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 9. Rule B: Start at 0. Add 36.

Rule A	0	**9**	**18**	**27**	36	45
Rule B	0	**36**	**72**	**108**	144	180

Each Rule B term is **4** times the Rule A term. **Last ordered pair: ((45, 180))**

2. Rule A: Start at 0. Add 15. Rule B: Start at 0. Add 75.

Rule A	0	**15**	**30**	45	**60**	75
Rule B	0	**75**	**150**	225	**300**	375

Each Rule B term is **5** times the Rule A term. **Last ordered pair: ((75, 375))**

3. Rule A: Start at 0. Add 12. Rule B: Start at 0. Add 36.

Rule A	0	**12**	**24**	**36**	48	60
Rule B	0	**36**	**72**	**108**	144	180

Each Rule B term is **3** times the Rule A term. **Last ordered pair: ((60, 180))**

4. Rule A: Start at 0. Add 7. Rule B: Start at 0. Add 14.

Rule A	0	**7**	14	21	**28**	**35**
Rule B	0	**14**	28	42	**56**	**70**

Each Rule B term is **2** times the Rule A term. **Last ordered pair: ((35, 70))**

5. Rule A: Start at 0. Add 9. Rule B: Start at 0. Add 45.

Rule A	0	9	18	**27**	**36**	**45**
Rule B	0	45	90	**135**	**180**	**225**

Each Rule B term is **5** times the Rule A term. **Last ordered pair: ((45, 225))**