tutorified

3.OA.D.9 Finding the Pattern

3.OA.D.9: Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations.

Write the next number in the number sequence and then find a rule for each sequence.

- 1. 5, 8, 11, 14, 17, ____
- Rule: _____
- 2. 24, 34, 44, 54, 64, ____
- Rule: _____
- 3. 57, 48, 39, 20, 11, ____
- Rule: _____
- 4. 11, 18, 25, 32, 39, ____
- Rule: _____

Fill in the missing numbers in a pattern and then write a rule for each pattern.

- 5. 3, 7, 11, ____, 19, ____
- Rule: _____
- 6. 97, 89, 81, ____, 57
- Rule: _____
- 7. 43, 38, _____, 33, _____, 23
- Rule: _____

For questions 8-10, use the table below.

Manuel's Savings

Week	1	2	3	4
Amount	\$13		\$29	\$37

- 8. How much money does Manuel save each week? _____
- 9. What is Manuel's total savings in week 2?_____
- 10. Manuel has a bill to pay amounting to \$65. If she continues the saving pattern, will she have enough money saved for paying the bill by week 7? _____

tutorified

3.OA.D.9 Finding the Pattern

Answer Key

3.OA.D.9: Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations.

Write the next number in the number sequence and then find a rule for each sequence.

- 1. **5**, **8**, **11**, **14**, **17**, **20**
- Rule: Add 3.
- 2. 24, 34, 44, 54, 64, __74__
- Rule: ___Add 10.
- 3. **57**, **48**, **39**, **30**, **21**, **12**
- Rule: Subtract 9.
- 4. **11**, **18**, **25**, **32**, **39**, **46**
- Rule: Add 7.

Fill in the missing numbers in a pattern and then write a rule for each pattern.

- 5. **3**, **7**, **11**, **15** , **19**, **23**
- Rule: Add 4.
- 6. **97**, **89**, **81**, <u>**73**</u>, <u>**65**</u>, **57**
- Rule: Subtract 8.
- 7. **43**, **38**, **33**, **28**, **23**, **18**
- Rule: Subtract 5.

For questions 8-10, use the table below.

Manuel's Savings

Week	1	2	3	4
Amount	\$13		\$29	\$37

- 9. What is Manuel's total savings in week 2? \$21
- 10. Manuel has a bill to pay amounting to \$65. If she continues the saving pattern, will she have enough money saved for paying the bill by week 7? ______No.___