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## 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.

## $1.5,8,11,14,17$, <br> $\qquad$

Rule: $\qquad$
2. $24,34,44,54,64$, $\qquad$ Rule: $\qquad$
3. 57, 48, 39, 20, 11, $\qquad$ Rule: $\qquad$
4. 11, 18, 25, 32, 39, $\qquad$ Rule: $\qquad$

Fill in the missing numbers in a pattern and then write a rule for each pattern.
5. 3, 7, 11, $\qquad$ , 19, $\qquad$

$\qquad$ , 57
$6.97,89,81$, $\qquad$ , , 23
7. 43, 38, $\qquad$ 33, $\qquad$

Rule: $\qquad$
Rule: $\qquad$
$\qquad$

For questions 8-10, use the table below.

> Manuel's Savings

| Week | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ |
| :---: | :---: | :---: | :---: | :---: |
| Amount | $\$ 13$ |  | $\$ 29$ | $\$ 37$ |

8. How much money does Manuel save each week? $\qquad$
9. What is Manuel's total savings in week 2? $\qquad$
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? $\qquad$

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## 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.
$1.5,8,11,14,17,20$
2. $\mathbf{2 4}, \mathbf{3 4}, 44,54,64,74$
3. 57, 48, 39, 30, 21, 12
4. 11, 18, 25, 32, 39, _46

Rule: $\qquad$ Add 3.

Rule: $\qquad$ Add 10.

Rule: $\qquad$ Subtract 9.

Rule: $\qquad$ 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
6. 97, 89, 81, 73 $\qquad$ , 57
7. 43, 38, $\qquad$ 33 28, $\qquad$ , 18

Rule: Add 4.
Rule: Subtract 8 $\qquad$
Rule: Subtract 5.

For questions 8-10, use the table below.

## Manuel's Savings

| Week | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ |
| :---: | :---: | :---: | :---: | :---: |
| Amount | $\$ 13$ |  | $\$ 29$ | $\$ 37$ |

8. How much money does Manuel save each week? $\qquad$
9. What is Manuel's total savings in week 2? $\qquad$ \$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 ? $\qquad$
