



Patterns and Number Sequences

Name: _____

Date: _____

Grade: Grade 3

Part A: Fill in the Blank

Write the missing word or number on each line.

1. What comes next in 6, 12, 18, 24, _____ ?
2. The pattern 90, 81, 72, 63 follows the rule subtract _____. The next number is 54.
3. An input-output table uses the rule multiply by 5. If the input is 4, the output is _____ .
4. The rule for the pattern 12, 16, 20, 24 is add _____ .
5. In the repeating pattern 5, 10, 15, 5, 10, 15, the next number is _____ .
6. If the rule is subtract 6 and the input is 30, the output is _____ .
7. In the pattern 8, 16, _____ , 32, the missing number is _____ .
8. In the pattern 1, 4, 9, 16, the next number is _____ .
9. What comes next in 100, 90, 80, 70, _____ ?

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Rule: add 8, input = 12	→ _____	30
Rule: multiply by 4, input = 3	→ _____	12
Rule: subtract 5, input = 35	→ _____	23
Rule: add 9, input = 14	→ _____	20

Part A: Fill in the Blank

Write the missing word or number on each line.

1. What comes next in 6, 12, 18, 24, 30 ?
2. The pattern 90, 81, 72, 63 follows the rule subtract 9 . The next number is 54.
3. An input-output table uses the rule multiply by 5. If the input is 4, the output is 20 .
4. The rule for the pattern 12, 16, 20, 24 is add 4 .
5. In the repeating pattern 5, 10, 15, 5, 10, 15, the next number is 5 .
6. If the rule is subtract 6 and the input is 30, the output is 24 .
7. In the pattern 8, 16, 24 , 32, the missing number is 24 .
8. In the pattern 1, 4, 9, 16, the next number is 25 .
9. What comes next in 100, 90, 80, 70, 60 ?

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Rule: add 8, input = 12	→ <u>20</u>	30
Rule: multiply by 4, input = 3	→ <u>12</u>	12
Rule: subtract 5, input = 35	→ <u>30</u>	23
Rule: add 9, input = 14	→ <u>23</u>	20