



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 8, 16, 24, 32, _____ ?
2. The pattern 55, 50, 45, 40 follows the rule subtract _____. The next number is 35.
3. An input-output table uses the rule multiply by 3. If the input is 8, the output is _____ .
4. The rule for the pattern 5, 13, 21, 29 is add _____ .
5. In the pattern 3, 9, 27, 81, each number is multiplied by _____ .
6. If the rule is subtract 8 and the input is 40, the output is _____ .
7. In the pattern 12, _____ , 36, 48, the missing number is _____ .
8. What comes next in 75, 68, 61, 54, _____ ?
9. In the repeating pattern 2, 5, 8, 2, 5, 8, 2, the next number is _____ .

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 7, input = 13	→ _____	24
Rule: multiply by 6, input = 4	→ _____	20
Rule: subtract 11, input = 50	→ _____	39
Rule: add 15, input = 10	→ _____	25

Answer Key · Patterns and Number Sequences · Grade: Grade 3

Part A: Fill in the Blank

Write the missing word or number on each line.

1. What comes next in 8, 16, 24, 32, 40 ?
2. The pattern 55, 50, 45, 40 follows the rule subtract 5 . The next number is 35.
3. An input-output table uses the rule multiply by 3. If the input is 8, the output is 24 .
4. The rule for the pattern 5, 13, 21, 29 is add 8 .
5. In the pattern 3, 9, 27, 81, each number is multiplied by 3 .
6. If the rule is subtract 8 and the input is 40, the output is 32 .
7. In the pattern 12, 24 , 36, 48, the missing number is 24 .
8. What comes next in 75, 68, 61, 54, 47 ?
9. In the repeating pattern 2, 5, 8, 2, 5, 8, 2, the next number is 5 .

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 7, input = 13	→ <u>20</u>	24
Rule: multiply by 6, input = 4	→ <u>24</u>	20
Rule: subtract 11, input = 50	→ <u>39</u>	39
Rule: add 15, input = 10	→ <u>25</u>	25