



Determine which number sentence best matches the function machine.

**Answers**

1)

| in | out |
|----|-----|
| 50 | 37  |
| 45 | 32  |
| 46 | 33  |
| 47 | 34  |
| 37 | 24  |

If each input is 'Q' which rule could the function machine be using?

- A.  $Q + 13$   
 B.  $Q - 13$   
 C.  $Q \times 13$   
 D.  $Q \div 13$

2)

| in | out |
|----|-----|
| 38 | 49  |
| 48 | 59  |
| 36 | 47  |
| 18 | 29  |
| 44 | 55  |

If each input is 'Q' which rule could the function machine be using?

- A.  $Q + 11$   
 B.  $Q - 11$   
 C.  $Q \times 11$   
 D.  $Q \div 11$

3)

| in | out |
|----|-----|
| 61 | 49  |
| 39 | 27  |
| 56 | 44  |
| 27 | 15  |
| 60 | 48  |

If each input is 'Q' which rule could the function machine be using?

- A.  $Q + 12$   
 B.  $Q - 12$   
 C.  $Q \times 12$   
 D.  $Q \div 12$

4)

| in | out |
|----|-----|
| 19 | 29  |
| 10 | 20  |
| 23 | 33  |
| 26 | 36  |
| 30 | 40  |

If each input is 'Q' which rule could the function machine be using?

- A.  $Q + 10$   
 B.  $Q - 10$   
 C.  $Q \times 10$   
 D.  $Q \div 10$

5)

| in | out |
|----|-----|
| 20 | 27  |
| 25 | 32  |
| 29 | 36  |
| 30 | 37  |
| 13 | 20  |

If each input is 'Q' which rule could the function machine be using?

- A.  $Q + 7$   
 B.  $Q - 7$   
 C.  $Q \times 7$   
 D.  $Q \div 7$

6)

| in | out |
|----|-----|
| 49 | 37  |
| 30 | 18  |
| 53 | 41  |
| 42 | 30  |
| 23 | 11  |

If each input is 'Q' which rule could the function machine be using?

- A.  $Q + 12$   
 B.  $Q - 12$   
 C.  $Q \times 12$   
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7)

| in | out |
|----|-----|
| 23 | 28  |
| 32 | 37  |
| 16 | 21  |
| 41 | 46  |
| 49 | 54  |

If each input is 'Q' which rule could the function machine be using?

- A.  $Q + 5$   
 B.  $Q - 5$   
 C.  $Q \times 5$   
 D.  $Q \div 5$

8)

| in | out |
|----|-----|
| 11 | 24  |
| 27 | 40  |
| 30 | 43  |
| 43 | 56  |
| 48 | 61  |

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9)

| in | out |
|----|-----|
| 57 | 46  |
| 49 | 38  |
| 41 | 30  |
| 24 | 13  |
| 28 | 17  |

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1. \_\_\_\_\_  
 2. \_\_\_\_\_  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_  
 5. \_\_\_\_\_  
 6. \_\_\_\_\_  
 7. \_\_\_\_\_  
 8. \_\_\_\_\_  
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1.     **B**      
 2.     **A**      
 3.     **B**      
 4.     **A**      
 5.     **A**      
 6.     **B**      
 7.     **A**      
 8.     **A**      
 9.     **B**