**Determine which number sentence best matches the function machine.**

**1)**

| in | out |
|----|-----|
| 49 | 54 |
| 41 | 46 |
| 16 | 21 |
| 10 | 15 |
| 17 | 22 |

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

A. Q + 5
B. Q - 5
C. Q × 5
D. Q ÷ 5

**2)**

| in | out |
|----|-----|
| 41 | 53 |
| 43 | 55 |
| 34 | 46 |
| 44 | 56 |
| 30 | 42 |

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

A. Q + 12
B. Q - 12
C. Q × 12
D. Q ÷ 12

**3)**

| in | out |
|----|-----|
| 34 | 42 |
| 30 | 38 |
| 40 | 48 |
| 20 | 28 |
| 35 | 43 |

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

A. Q + 8
B. Q - 8
C. Q × 8
D. Q ÷ 8

**4)**

| in | out |
|----|-----|
| 39 | 45 |
| 26 | 32 |
| 50 | 56 |
| 27 | 33 |
| 25 | 31 |

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

A. Q + 6
B. Q - 6
C. Q × 6
D. Q ÷ 6

**5)**

| in | out |
|----|-----|
| 43 | 28 |
| 26 | 11 |
| 29 | 14 |
| 38 | 23 |
| 42 | 27 |

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

A. Q + 15
B. Q - 15
C. Q × 15
D. Q ÷ 15

**6)**

| in | out |
|----|-----|
| 53 | 41 |
| 57 | 45 |
| 25 | 13 |
| 55 | 43 |
| 62 | 50 |

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

A. Q + 12
B. Q - 12
C. Q × 12
D. Q ÷ 12

**7)**

| in | out |
|----|-----|
| 42 | 31 |
| 21 | 10 |
| 53 | 42 |
| 50 | 39 |
| 51 | 40 |

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

A. Q + 11
B. Q - 11
C. Q × 11
D. Q ÷ 11

**8)**

| in | out |
|----|-----|
| 47 | 52 |
| 16 | 21 |
| 35 | 40 |
| 29 | 34 |
| 28 | 33 |

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

A. Q + 5
B. Q - 5
C. Q × 5
D. Q ÷ 5

**9)**

| in | out |
|----|-----|
| 30 | 21 |
| 20 | 11 |
| 45 | 36 |
| 46 | 37 |
| 58 | 49 |

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

A. Q + 9
B. Q - 9
C. Q × 9
D. Q ÷ 9

**Math**

| 1-9 | 89 | 78 | 67 | 56 | 44 | 33 | 22 | 11 | 0 |
|-----|----|----|----|----|----|----|----|----|----|

**Determine which number sentence best matches the function machine.**

**1)**

| in | out |
|----|-----|
| 49 | 54 |
| 41 | 46 |
| 16 | 21 |
| 10 | 15 |
| 17 | 22 |

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

A. Q + 5
B. Q - 5
C. Q × 5
D. Q ÷ 5

**2)**

| in | out |
|----|-----|
| 41 | 53 |
| 43 | 55 |
| 34 | 46 |
| 44 | 56 |
| 30 | 42 |

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

A. Q + 12
B. Q - 12
C. Q × 12
D. Q ÷ 12

**3)**

| in | out |
|----|-----|
| 34 | 42 |
| 30 | 38 |
| 40 | 48 |
| 20 | 28 |
| 35 | 43 |

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

A. Q + 8
B. Q - 8
C. Q × 8
D. Q ÷ 8

1. ____**A**____

2. ____**A**____

3. ____**A**____

4. ____**A**____

5. ____**B**____

6. ____**B**____

7. ____**B**____

8. ____**A**____

9. ____**B**____

**4)**

| in | out |
|----|-----|
| 39 | 45 |
| 26 | 32 |
| 50 | 56 |
| 27 | 33 |
| 25 | 31 |

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

A. Q + 6
B. Q - 6
C. Q × 6
D. Q ÷ 6

**5)**

| in | out |
|----|-----|
| 43 | 28 |
| 26 | 11 |
| 29 | 14 |
| 38 | 23 |
| 42 | 27 |

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

A. Q + 15
B. Q - 15
C. Q × 15
D. Q ÷ 15

**6)**

| in | out |
|----|-----|
| 53 | 41 |
| 57 | 45 |
| 25 | 13 |
| 55 | 43 |
| 62 | 50 |

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

A. Q + 12
B. Q - 12
C. Q × 12
D. Q ÷ 12

**7)**

| in | out |
|----|-----|
| 42 | 31 |
| 21 | 10 |
| 53 | 42 |
| 50 | 39 |
| 51 | 40 |

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

A. Q + 11
B. Q - 11
C. Q × 11
D. Q ÷ 11

**8)**

| in | out |
|----|-----|
| 47 | 52 |
| 16 | 21 |
| 35 | 40 |
| 29 | 34 |
| 28 | 33 |

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

A. Q + 5
B. Q - 5
C. Q × 5
D. Q ÷ 5

**9)**

| in | out |
|----|-----|
| 30 | 21 |
| 20 | 11 |
| 45 | 36 |
| 46 | 37 |
| 58 | 49 |

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

A. Q + 9
B. Q - 9
C. Q × 9
D. Q ÷ 9