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

1) 

| in | out |
| :---: | :---: |
| 33 | 42 |
| 27 | 36 |
| 20 | 29 |
| 16 | 25 |
| 32 | 41 |

If each input is ' Q ' which rule could the function machine be using?
A. $\mathrm{Q}+9$
B. Q-9
C. $\mathrm{Q} \times 9$
D. $\mathrm{Q} \div 9$
4)

| in | out |
| :---: | :---: |
| 13 | 20 |
| 23 | 30 |
| 14 | 21 |
| 25 | 32 |
| 28 | 35 |

If each input is ' Q ' which rule could the function machine be using?
A. $\mathrm{Q}+7$
B. Q-7
C. $\mathrm{Q} \times 7$
D. $\mathrm{Q} \div 7$

7) | in | out |
| :---: | :---: |
| 54 | 39 |
| 46 | 31 |
| 63 | 48 |
| 29 | 14 |
| 57 | 42 |

If each input is ' $Q$ ' which rule could the function machine be using?
A. $\mathrm{Q}+15$
B. $\mathrm{Q}-15$
C. $\mathrm{Q} \times 15$
D. $\mathrm{Q} \div 15$
8)

| in | out |
| :---: | :---: |
| 49 | 41 |
| 33 | 25 |
| 40 | 32 |
| 50 | 42 |
| 39 | 31 |

If each input is ' Q ' which rule could the function machine be using?
A. $\mathrm{Q}+8$
B. Q-8
C. $\mathrm{Q} \times 8$
D. $\mathrm{Q} \div 8$
3)

| in | out |
| :---: | :---: |
| 48 | 57 |
| 10 | 19 |
| 38 | 47 |
| 44 | 53 |
| 31 | 40 |

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D. $\mathrm{Q} \div 9$
6)

| in | out |
| :---: | :---: |
| 36 | 26 |
| 54 | 44 |
| 53 | 43 |
| 26 | 16 |
| 35 | 25 |

If each input is 'Q' which rule could the function machine be using?
A. $\mathrm{Q}+10$
B. $\mathrm{Q}-10$
C. $\mathrm{Q} \times 10$
D. $\mathrm{Q} \div 10$
9)

| in | out |
| :---: | :---: |
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| 48 | 40 |
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A. $\mathrm{Q}+8$
B. Q-8
C. $\mathrm{Q} \times 8$
D. $Q \div 8$

Answers

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$
7. $\qquad$
8. $\qquad$
9. $\qquad$

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B. Q-7
C. $\mathrm{Q} \times 7$
D. $Q \div 7$
D. $\mathrm{Q}-8$
3)

| in | out |
| :---: | :---: |
| 48 | 57 |
| 10 | 19 |
| 38 | 47 |
| 44 | 53 |
| 31 | 40 |

If each input is ' Q ' which rule could the function machine be using?
A. $\mathrm{Q}+9$
B. Q-9
C. $\mathrm{Q} \times 9$
D. $\mathrm{Q} \div 9$
6. $\qquad$
7. $\mathbf{B}$
8.

Answers

1. $\qquad$
2. $\mathbf{A}$
3. $\qquad$
4. $\mathbf{A}$
5. $\qquad$
$\qquad$
6. B
$\qquad$
6) 

| in | out |
| :---: | :---: |
| 36 | 26 |
| 54 | 44 |
| 53 | 43 |
| 26 | 16 |
| 35 | 25 |

9) | in | out |
| :---: | :---: |
| 27 | 19 |
| 48 | 40 |
| 31 | 23 |
| 44 | 36 |
| 46 | 38 |

If each input is ' $Q$ ' which rule could the function machine be using?
A. $\mathrm{Q}+8$
B. Q-8
C. $\mathrm{Q} \times 8$
D. $Q \div 8$
D. $\mathrm{Q}-8$

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D. $\mathrm{Q} \div 10$

