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

1) 

| In | Out |
| :---: | :---: |
| 5 | 40 |
| 6 | 48 |
| 3 | 24 |
| 2 | 16 |
| 8 | 64 |

If each input is 'Q' which rule could the function machine be using?
A. $\mathrm{Q}+9$
B. $\mathrm{Q} \div 8$
C. $\mathrm{Q} \times 8$
D. $Q+6$
4)

| In | Out |
| :---: | :---: |
| 1 | 8 |
| 78 | 85 |
| 19 | 26 |
| 30 | 37 |
| 56 | 63 |

If each input is ' Q ' which rule could the function machine be using?
A. $Q \times 6$
B. $\mathrm{Q} \times 2$
C. $\mathrm{Q}+7$
D. $\mathrm{Q}+7$
7)

| In | Out |
| :---: | :---: |
| 8 | 72 |
| 6 | 54 |
| 4 | 36 |
| 5 | 45 |
| 3 | 27 |

If each input is 'Q' which rule could the function machine be using?
A. $\mathrm{Q} \times 9$
B. $\mathrm{Q}+9$
C. $\mathrm{Q}+10$
D. $\mathrm{Q}+4$
2)

| In | Out |
| :---: | :---: |
| 88 | 86 |
| 11 | 9 |
| 38 | 36 |
| 41 | 39 |
| 64 | 62 |

If each input is 'Q' which rule could the function machine be using?
A. $\mathrm{Q} \div 7$
B. $\mathrm{Q}-10$
C. $\mathrm{Q}-2$
D. $\mathrm{Q}+2$
5)

| In | Out |
| :---: | :---: |
| 45 | 5 |
| 63 | 7 |
| 90 | 10 |
| 54 | 6 |
| 36 | 4 |

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

| In | Out |
| :---: | :---: |
| 6 | 36 |
| 4 | 24 |
| 10 | 60 |
| 5 | 30 |
| 2 | 12 |

If each input is ' Q ' which rule could the function machine be using?
A. $\mathrm{Q}+5$
B. $\mathrm{Q} \times 6$
C. $Q-6$
D. $\mathrm{Q} \times 6$
3)

| In | Out |
| :---: | :---: |
| 20 | 2 |
| 60 | 6 |
| 50 | 5 |
| 30 | 3 |
| 80 | 8 |

If each input is ' Q ' which rule could the function machine be using?
A. Q-4
B. $\mathrm{Q} \div 10$
C. $\mathrm{Q}-10$
D. $\mathrm{Q}+10$
6)

| In | Out |
| :---: | :---: |
| 84 | 76 |
| 55 | 47 |
| 28 | 20 |
| 62 | 54 |
| 57 | 49 |

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

| In | Out |
| :---: | :---: |
| 71 | 91 |
| 91 | 111 |
| 54 | 74 |
| 93 | 113 |
| 97 | 117 |

If each input is ' Q ' which rule could the function machine be using?
A. $\mathrm{Q} \times 7$
B. $\mathrm{Q} \div 20$
C. $\mathrm{Q}+20$
D. $\mathrm{Q}-20$

Answers

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

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| In | Out |
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If each input is 'Q' which rule could the function machine be using?
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B. $\mathrm{Q}-10$
C. Q-2
D. $\mathrm{Q}+2$
5)

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If each input is ' Q ' which rule could the function machine be using?
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8)

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C. Q-6
D. $\mathrm{Q} \times 6$
3)

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If each input is ' Q ' which rule could the function machine be using?
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B. $\mathrm{Q} \div 20$
C. $\mathrm{Q}+20$
D. $\mathrm{Q}-20$

Answers

1. C
2. C
3. 

B
4. C
5. $\mathbf{A}$
6. $\qquad$
7. $\mathbf{A}$
8. $\qquad$
9. C

