



Determine which rule best represents the expression the function machine used.

**Answers**

- 1) 

<b>Input (M)</b>	10	9	8	2	5
<b>Output</b>	49	45	41	17	29

      A.  $M \times 4 + 9$       B.  $M \times 4 - 8$   
C.  $M \times 4 + 10$       D.  $M + 4$
- 2) 

<b>Input (W)</b>	8	9	5	2	10
<b>Output</b>	32	37	17	2	42

      A.  $W \times 5 + 10$       B.  $W + 8$   
C.  $W \times 5 - 8$       D.  $W \times 8 + 8$
- 3) 

<b>Input (K)</b>	10	2	9	8	5
<b>Output</b>	40	0	35	30	15

      A.  $K \times 5 - 10$       B.  $K + 5$   
C.  $K \times 10$       D.  $K \times 10 + 10$
- 4) 

<b>Input (Y)</b>	10	2	8	9	5
<b>Output</b>	18	10	16	17	13

      A.  $Y \times 8 + 8$       B.  $Y + 7$   
C.  $Y \times 7$       D.  $Y + 8$
- 5) 

<b>Input (P)</b>	9	2	8	5	10
<b>Output</b>	63	14	56	35	70

      A.  $P \times 7 + 6$       B.  $P \times 7$   
C.  $P + 5$       D.  $P \times 5$
- 6) 

<b>Input (G)</b>	10	7	15	14	13
<b>Output</b>	5	2	10	9	8

      A.  $G \times 8 - 9$       B.  $G \times 5$   
C.  $G - 5$       D.  $G + 9$
- 7) 

<b>Input (Q)</b>	8	2	10	9	5
<b>Output</b>	23	11	27	25	17

      A.  $Q \times 2 + 7$       B.  $Q + 7$   
C.  $Q \times 7 + 7$       D.  $Q + 2$
- 8) 

<b>Input (H)</b>	16	11	15	8	14
<b>Output</b>	10	5	9	2	8

      A.  $H + 6$       B.  $H \times 8$   
C.  $H \times 6$       D.  $H - 6$
- 9) 

<b>Input (L)</b>	9	8	5	10	2
<b>Output</b>	63	56	35	70	14

      A.  $L + 5$       B.  $L \times 12 + 5$   
C.  $L \times 5$       D.  $L \times 7$
- 10) 

<b>Input (V)</b>	2	9	10	8	5
<b>Output</b>	25	81	89	73	49

      A.  $V \times 8$       B.  $V \times 8 + 9$   
C.  $V \times 9$       D.  $V + 9$

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_



Determine which rule best represents the expression the function machine used.

**Answers**

<b>Input (M)</b>	10	9	8	2	5
<b>Output</b>	49	45	41	17	29

A. $M \times 4 + 9$	B. $M \times 4 - 8$
C. $M \times 4 + 10$	D. $M + 4$

1.   **A**  

<b>Input (W)</b>	8	9	5	2	10
<b>Output</b>	32	37	17	2	42

A. $W \times 5 + 10$	B. $W + 8$
C. $W \times 5 - 8$	D. $W \times 8 + 8$

2.   **C**  

<b>Input (K)</b>	10	2	9	8	5
<b>Output</b>	40	0	35	30	15

A. $K \times 5 - 10$	B. $K + 5$
C. $K \times 10$	D. $K \times 10 + 10$

3.   **A**  

4.   **D**  

<b>Input (Y)</b>	10	2	8	9	5
<b>Output</b>	18	10	16	17	13

A. $Y \times 8 + 8$	B. $Y + 7$
C. $Y \times 7$	D. $Y + 8$

5.   **B**  

6.   **C**  

<b>Input (P)</b>	9	2	8	5	10
<b>Output</b>	63	14	56	35	70

A. $P \times 7 + 6$	B. $P \times 7$
C. $P + 5$	D. $P \times 5$

7.   **A**  

8.   **D**  

<b>Input (G)</b>	10	7	15	14	13
<b>Output</b>	5	2	10	9	8

A. $G \times 8 - 9$	B. $G \times 5$
C. $G - 5$	D. $G + 9$

9.   **D**  

10.   **B**  

<b>Input (Q)</b>	8	2	10	9	5
<b>Output</b>	23	11	27	25	17

A. $Q \times 2 + 7$	B. $Q + 7$
C. $Q \times 7 + 7$	D. $Q + 2$

<b>Input (H)</b>	16	11	15	8	14
<b>Output</b>	10	5	9	2	8

A. $H + 6$	B. $H \times 8$
C. $H \times 6$	D. $H - 6$

<b>Input (L)</b>	9	8	5	10	2
<b>Output</b>	63	56	35	70	14

A. $L + 5$	B. $L \times 12 + 5$
C. $L \times 5$	D. $L \times 7$

<b>Input (V)</b>	2	9	10	8	5
<b>Output</b>	25	81	89	73	49

A. $V \times 8$	B. $V \times 8 + 9$
C. $V \times 9$	D. $V + 9$