

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

- 1)

Input (W)	10	7	5	6	3
Output	74	53	39	46	25

 A. $W \times 7$ B. $W \times 7 + 4$
C. $W \times 7 + 5$ D. $W \times 7 - 3$
- 2)

Input (T)	3	2	7	10	9
Output	21	14	49	70	63

 A. $T \times 7$ B. $T \times 6 - 2$
C. $T \times 12 + 2$ D. $T \times 7 + 1$
- 3)

Input (N)	6	9	8	4	10
Output	33	51	45	21	57

 A. $N \times 3$ B. $N \times 6$
C. $N \times 6 - 3$ D. $N + 3$
- 4)

Input (H)	9	4	8	3	10
Output	53	18	46	11	60

 A. $H \times 10 + 10$ B. $H + 10$
C. $H \times 7 - 13$ D. $H \times 7 - 10$
- 5)

Input (Z)	8	3	9	10	6
Output	55	25	61	67	43

 A. $Z + 7$ B. $Z \times 7$
C. $Z \times 11 + 7$ D. $Z \times 6 + 7$
- 6)

Input (P)	4	5	6	8	9
Output	10	11	12	14	15

 A. $P \times 6$ B. $P \times 6 + 13$
C. $P \times 6 - 11$ D. $P + 6$
- 7)

Input (J)	5	6	9	8	2
Output	35	42	63	56	14

 A. $J \times 7$ B. $J \times 12 + 2$
C. $J \times 2$ D. $J \times 7 - 3$
- 8)

Input (L)	2	3	9	6	4
Output	12	17	47	32	22

 A. $L \times 5 + 2$ B. $L + 5$
C. $L \times 5 + 3$ D. $L \times 2$
- 9)

Input (M)	9	2	10	7	4
Output	16	9	17	14	11

 A. $M + 6$ B. $M \times 7$
C. $M \times 7 + 7$ D. $M + 7$
- 10)

Input (K)	9	3	8	5	10
Output	86	26	76	46	96

 A. $K \times 12 + 4$ B. $K \times 10 - 4$
C. $K \times 10 + 7$ D. $K \times 10 - 5$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____



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

Answers

1)	Input (W)	10	7	5	6	3	A. $W \times 7$	B. $W \times 7 + 4$
	Output	74	53	39	46	25	C. $W \times 7 + 5$	D. $W \times 7 - 3$

1. **B**

2)	Input (T)	3	2	7	10	9	A. $T \times 7$	B. $T \times 6 - 2$
	Output	21	14	49	70	63	C. $T \times 12 + 2$	D. $T \times 7 + 1$

2. **A**3. **C**

3)	Input (N)	6	9	8	4	10	A. $N \times 3$	B. $N \times 6$
	Output	33	51	45	21	57	C. $N \times 6 - 3$	D. $N + 3$

4. **D**5. **D**

4)	Input (H)	9	4	8	3	10	A. $H \times 10 + 10$	B. $H + 10$
	Output	53	18	46	11	60	C. $H \times 7 - 13$	D. $H \times 7 - 10$

6. **D**7. **A**

5)	Input (Z)	8	3	9	10	6	A. $Z + 7$	B. $Z \times 7$
	Output	55	25	61	67	43	C. $Z \times 11 + 7$	D. $Z \times 6 + 7$

8. **A**9. **D**

6)	Input (P)	4	5	6	8	9	A. $P \times 6$	B. $P \times 6 + 13$
	Output	10	11	12	14	15	C. $P \times 6 - 11$	D. $P + 6$

10. **B**

7)	Input (J)	5	6	9	8	2	A. $J \times 7$	B. $J \times 12 + 2$
	Output	35	42	63	56	14	C. $J \times 2$	D. $J \times 7 - 3$

8)	Input (L)	2	3	9	6	4	A. $L \times 5 + 2$	B. $L + 5$
	Output	12	17	47	32	22	C. $L \times 5 + 3$	D. $L \times 2$

9)	Input (M)	9	2	10	7	4	A. $M + 6$	B. $M \times 7$
	Output	16	9	17	14	11	C. $M \times 7 + 7$	D. $M + 7$

10)	Input (K)	9	3	8	5	10	A. $K \times 12 + 4$	B. $K \times 10 - 4$
	Output	86	26	76	46	96	C. $K \times 10 + 7$	D. $K \times 10 - 5$