



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

**Answers**

1) 

<b>Input (R)</b>	11	15	13	9	8
<b>Output</b>	6	10	8	4	3

A.  $R \times 9$ 
B.  $R \times 5 + 10$   
C.  $R \times 5 - 12$ 
D.  $R - 5$

1. \_\_\_\_\_

2) 

<b>Input (P)</b>	8	3	4	6	10
<b>Output</b>	17	12	13	15	19

A.  $P \times 9$ 
B.  $P + 3$   
C.  $P + 9$ 
D.  $P \times 8 - 3$

2. \_\_\_\_\_

3) 

<b>Input (T)</b>	3	8	6	10	4
<b>Output</b>	6	16	12	20	8

A.  $T \times 2$ 
B.  $T \times 2 - 6$   
C.  $T \times 6 + 4$ 
D.  $T \times 2 + 3$

3. \_\_\_\_\_

4. \_\_\_\_\_

4) 

<b>Input (V)</b>	3	6	4	8	10
<b>Output</b>	21	51	31	71	91

A.  $V \times 10 - 9$ 
B.  $V \times 9$   
C.  $V \times 10 + 11$ 
D.  $V \times 10$

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

5) 

<b>Input (L)</b>	6	4	3	8	10
<b>Output</b>	37	27	22	47	57

A.  $L \times 5$ 
B.  $L \times 5 + 9$   
C.  $L \times 5 + 7$ 
D.  $L + 5$

8. \_\_\_\_\_

9. \_\_\_\_\_

6) 

<b>Input (J)</b>	17	13	12	15	19
<b>Output</b>	8	4	3	6	10

A.  $J \times 9$ 
B.  $J \times 9 - 10$   
C.  $J - 9$ 
D.  $J + 9$

10. \_\_\_\_\_

7) 

<b>Input (U)</b>	3	8	6	10	4
<b>Output</b>	7	32	22	42	12

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

8) 

<b>Input (N)</b>	3	4	6	8	10
<b>Output</b>	29	36	50	64	78

A.  $N \times 7 + 10$ 
B.  $N \times 7 + 8$   
C.  $N \times 7 - 9$ 
D.  $N + 7$

9) 

<b>Input (H)</b>	8	4	6	3	10
<b>Output</b>	64	32	48	24	80

A.  $H \times 11 + 9$ 
B.  $H \times 8 + 11$   
C.  $H \times 8$ 
D.  $H \times 9$

10) 

<b>Input (Z)</b>	6	3	10	8	4
<b>Output</b>	17	11	25	21	13

A.  $Z \times 2 - 6$ 
B.  $Z \times 3 - 5$   
C.  $Z \times 2 + 5$ 
D.  $Z + 5$



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

**Answers**

<b>Input (R)</b>	11	15	13	9	8
<b>Output</b>	6	10	8	4	3

A. $R \times 9$	B. $R \times 5 + 10$
C. $R \times 5 - 12$	D. $R - 5$

1.     **D**    

<b>Input (P)</b>	8	3	4	6	10
<b>Output</b>	17	12	13	15	19

A. $P \times 9$	B. $P + 3$
C. $P + 9$	D. $P \times 8 - 3$

2.     **C**    

<b>Input (T)</b>	3	8	6	10	4
<b>Output</b>	6	16	12	20	8

A. $T \times 2$	B. $T \times 2 - 6$
C. $T \times 6 + 4$	D. $T \times 2 + 3$

3.     **A**    

4.     **A**    

<b>Input (V)</b>	3	6	4	8	10
<b>Output</b>	21	51	31	71	91

A. $V \times 10 - 9$	B. $V \times 9$
C. $V \times 10 + 11$	D. $V \times 10$

5.     **C**    

6.     **C**    

<b>Input (L)</b>	6	4	3	8	10
<b>Output</b>	37	27	22	47	57

A. $L \times 5$	B. $L \times 5 + 9$
C. $L \times 5 + 7$	D. $L + 5$

7.     **A**    

8.     **B**    

<b>Input (J)</b>	17	13	12	15	19
<b>Output</b>	8	4	3	6	10

A. $J \times 9$	B. $J \times 9 - 10$
C. $J - 9$	D. $J + 9$

9.     **C**    

10.     **C**    

<b>Input (U)</b>	3	8	6	10	4
<b>Output</b>	7	32	22	42	12

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

<b>Input (N)</b>	3	4	6	8	10
<b>Output</b>	29	36	50	64	78

A. $N \times 7 + 10$	B. $N \times 7 + 8$
C. $N \times 7 - 9$	D. $N + 7$

<b>Input (H)</b>	8	4	6	3	10
<b>Output</b>	64	32	48	24	80

A. $H \times 11 + 9$	B. $H \times 8 + 11$
C. $H \times 8$	D. $H \times 9$

<b>Input (Z)</b>	6	3	10	8	4
<b>Output</b>	17	11	25	21	13

A. $Z \times 2 - 6$	B. $Z \times 3 - 5$
C. $Z \times 2 + 5$	D. $Z + 5$