



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

**Answers**

1) 

<b>Input (T)</b>	13	10	14	15	9
<b>Output</b>	8	5	9	10	4

A.  $T \times 6 - 8$  B.  $T \times 5 - 11$   
C.  $T - 5$  D.  $T \times 5 + 7$

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

2) 

<b>Input (N)</b>	5	9	10	8	4
<b>Output</b>	16	36	41	31	11

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

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

3) 

<b>Input (K)</b>	4	10	9	5	8
<b>Output</b>	17	29	27	19	25

A.  $K \times 3 - 9$  B.  $K \times 2$   
C.  $K \times 2 + 12$  D.  $K \times 2 + 9$

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

4) 

<b>Input (U)</b>	4	8	10	5	9
<b>Output</b>	25	41	49	29	45

A.  $U + 4$  B.  $U \times 4 + 9$   
C.  $U \times 9$  D.  $U \times 4 + 11$

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

5) 

<b>Input (Z)</b>	10	5	9	8	4
<b>Output</b>	16	11	15	14	10

A.  $Z \times 6 - 9$  B.  $Z \times 7 - 8$   
C.  $Z + 8$  D.  $Z + 6$

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

6) 

<b>Input (J)</b>	8	10	9	4	5
<b>Output</b>	48	60	54	24	30

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

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

7) 

<b>Input (S)</b>	4	8	9	10	5
<b>Output</b>	8	12	13	14	9

A.  $S + 4$  B.  $S + 8$   
C.  $S \times 8$  D.  $S \times 4$

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

8) 

<b>Input (R)</b>	4	9	10	8	5
<b>Output</b>	19	54	61	47	26

A.  $R \times 7 - 11$  B.  $R \times 7 - 9$   
C.  $R + 7$  D.  $R \times 9$

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

9) 

<b>Input (L)</b>	10	8	9	4	5
<b>Output</b>	90	72	81	36	45

A.  $L \times 9 - 12$  B.  $L \times 9$   
C.  $L + 10$  D.  $L \times 8 - 10$

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

10) 

<b>Input (P)</b>	8	9	4	10	5
<b>Output</b>	21	23	13	25	15

A.  $P \times 2 + 5$  B.  $P \times 5$   
C.  $P \times 4 - 5$  D.  $P + 2$

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



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

**Answers**

1) 

<b>Input (T)</b>	13	10	14	15	9
<b>Output</b>	8	5	9	10	4

A.  $T \times 6 - 8$  B.  $T \times 5 - 11$   
C.  $T - 5$  D.  $T \times 5 + 7$

1.     **C**    

2) 

<b>Input (N)</b>	5	9	10	8	4
<b>Output</b>	16	36	41	31	11

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

2.     **A**    

3) 

<b>Input (K)</b>	4	10	9	5	8
<b>Output</b>	17	29	27	19	25

A.  $K \times 3 - 9$  B.  $K \times 2$   
C.  $K \times 2 + 12$  D.  $K \times 2 + 9$

3.     **D**    

4.     **B**    

4) 

<b>Input (U)</b>	4	8	10	5	9
<b>Output</b>	25	41	49	29	45

A.  $U + 4$  B.  $U \times 4 + 9$   
C.  $U \times 9$  D.  $U \times 4 + 11$

5.     **D**    

6.     **A**    

5) 

<b>Input (Z)</b>	10	5	9	8	4
<b>Output</b>	16	11	15	14	10

A.  $Z \times 6 - 9$  B.  $Z \times 7 - 8$   
C.  $Z + 8$  D.  $Z + 6$

7.     **A**    

8.     **B**    

6) 

<b>Input (J)</b>	8	10	9	4	5
<b>Output</b>	48	60	54	24	30

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

9.     **B**    

10.     **A**    

7) 

<b>Input (S)</b>	4	8	9	10	5
<b>Output</b>	8	12	13	14	9

A.  $S + 4$  B.  $S + 8$   
C.  $S \times 8$  D.  $S \times 4$

8) 

<b>Input (R)</b>	4	9	10	8	5
<b>Output</b>	19	54	61	47	26

A.  $R \times 7 - 11$  B.  $R \times 7 - 9$   
C.  $R + 7$  D.  $R \times 9$

9) 

<b>Input (L)</b>	10	8	9	4	5
<b>Output</b>	90	72	81	36	45

A.  $L \times 9 - 12$  B.  $L \times 9$   
C.  $L + 10$  D.  $L \times 8 - 10$

10) 

<b>Input (P)</b>	8	9	4	10	5
<b>Output</b>	21	23	13	25	15

A.  $P \times 2 + 5$  B.  $P \times 5$   
C.  $P \times 4 - 5$  D.  $P + 2$