



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

**Answers**

1) 

<b>Input (W)</b>	4	9	3	7	2
<b>Output</b>	13	18	12	16	11

- A.  $W \times 14 + 10$       B.  $W \times 9 + 9$   
 C.  $W \times 10$               D.  $W + 9$

2) 

<b>Input (P)</b>	2	4	3	9	7
<b>Output</b>	19	29	24	54	44

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

3) 

<b>Input (J)</b>	7	4	9	2	3
<b>Output</b>	40	19	54	5	12

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

4) 

<b>Input (F)</b>	4	7	2	9	3
<b>Output</b>	42	72	22	92	32

- A.  $F \times 10$                   B.  $F \times 14 + 2$   
 C.  $F + 10$                   D.  $F \times 10 + 2$

5) 

<b>Input (G)</b>	16	14	9	11	10
<b>Output</b>	9	7	2	4	3

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

6) 

<b>Input (Y)</b>	9	4	7	3	2
<b>Output</b>	90	40	70	30	20

- A.  $Y + 10$                   B.  $Y \times 10 - 4$   
 C.  $Y \times 3$                   D.  $Y \times 10$

7) 

<b>Input (L)</b>	10	8	13	15	9
<b>Output</b>	4	2	7	9	3

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

8) 

<b>Input (R)</b>	9	3	7	4	2
<b>Output</b>	11	5	9	6	4

- A.  $R \times 7 + 6$               B.  $R \times 2 - 9$   
 C.  $R + 2$                   D.  $R + 6$

9) 

<b>Input (T)</b>	4	9	2	3	7
<b>Output</b>	21	36	15	18	30

- A.  $T + 9$                     B.  $T \times 3 + 9$   
 C.  $T \times 3 + 10$               D.  $T \times 4 - 9$

10) 

<b>Input (H)</b>	2	3	4	9	7
<b>Output</b>	1	6	11	36	26

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

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



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

**Answers**

1) 

<b>Input (W)</b>	4	9	3	7	2
<b>Output</b>	13	18	12	16	11

A.  $W \times 14 + 10$ 
B.  $W \times 9 + 9$   
C.  $W \times 10$ 
D.  $W + 9$

1.     **D**    

2) 

<b>Input (P)</b>	2	4	3	9	7
<b>Output</b>	19	29	24	54	44

A.  $P \times 5 + 9$ 
B.  $P + 9$   
C.  $P \times 9 + 9$ 
D.  $P + 5$

2.     **A**    

3) 

<b>Input (J)</b>	7	4	9	2	3
<b>Output</b>	40	19	54	5	12

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

3.     **D**    

4) 

<b>Input (F)</b>	4	7	2	9	3
<b>Output</b>	42	72	22	92	32

A.  $F \times 10$ 
B.  $F \times 14 + 2$   
C.  $F + 10$ 
D.  $F \times 10 + 2$

4.     **D**    

5) 

<b>Input (G)</b>	16	14	9	11	10
<b>Output</b>	9	7	2	4	3

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

5.     **D**    

6) 

<b>Input (Y)</b>	9	4	7	3	2
<b>Output</b>	90	40	70	30	20

A.  $Y + 10$ 
B.  $Y \times 10 - 4$   
C.  $Y \times 3$ 
D.  $Y \times 10$

6.     **D**    

7) 

<b>Input (L)</b>	10	8	13	15	9
<b>Output</b>	4	2	7	9	3

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

7.     **C**    

8) 

<b>Input (R)</b>	9	3	7	4	2
<b>Output</b>	11	5	9	6	4

A.  $R \times 7 + 6$ 
B.  $R \times 2 - 9$   
C.  $R + 2$ 
D.  $R + 6$

8.     **C**    

9) 

<b>Input (T)</b>	4	9	2	3	7
<b>Output</b>	21	36	15	18	30

A.  $T + 9$ 
B.  $T \times 3 + 9$   
C.  $T \times 3 + 10$ 
D.  $T \times 4 - 9$

9.     **B**    

10) 

<b>Input (H)</b>	2	3	4	9	7
<b>Output</b>	1	6	11	36	26

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

10.     **B**