



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

**Answers**

1) 

<b>Input (H)</b>	7	10	4	6	9
<b>Output</b>	16	19	13	15	18

- A.  $H \times 2$                       B.  $H + 9$   
 C.  $H \times 9 - 1$                   D.  $H \times 11 - 2$

2) 

<b>Input (L)</b>	6	10	9	7	4
<b>Output</b>	46	70	64	52	34

- A.  $L \times 10$                       B.  $L \times 5 - 10$   
 C.  $L \times 6 + 10$                   D.  $L + 10$

3) 

<b>Input (G)</b>	9	10	7	4	6
<b>Output</b>	88	98	68	38	58

- A.  $G \times 10 - 2$                   B.  $G + 10$   
 C.  $G \times 13 + 2$                   D.  $G \times 11 - 2$

4) 

<b>Input (Q)</b>	14	18	12	17	15
<b>Output</b>	6	10	4	9	7

- A.  $Q \times 11 - 10$                   B.  $Q \times 10$   
 C.  $Q - 8$                           D.  $Q \times 10 + 10$

5) 

<b>Input (F)</b>	7	4	10	6	9
<b>Output</b>	17	14	20	16	19

- A.  $F + 10$                       B.  $F \times 10$   
 C.  $F + 3$                           D.  $F \times 10 + 5$

6) 

<b>Input (N)</b>	20	17	14	19	16
<b>Output</b>	10	7	4	9	6

- A.  $N + 2$                           B.  $N - 10$   
 C.  $N + 10$                       D.  $N \times 10 + 4$

7) 

<b>Input (U)</b>	4	6	7	10	9
<b>Output</b>	25	33	37	49	45

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

8) 

<b>Input (M)</b>	10	9	4	7	6
<b>Output</b>	40	35	10	25	20

- A.  $M + 10$                       B.  $M \times 10 + 10$   
 C.  $M \times 5 - 10$                   D.  $M \times 6 - 10$

9) 

<b>Input (J)</b>	7	9	4	6	10
<b>Output</b>	58	72	37	51	79

- A.  $J \times 7 + 12$                   B.  $J \times 7 + 9$   
 C.  $J + 9$                           D.  $J + 7$

10) 

<b>Input (P)</b>	9	4	6	7	10
<b>Output</b>	63	28	42	49	70

- A.  $P \times 7 - 9$                       B.  $P \times 7$   
 C.  $P + 8$                           D.  $P \times 11 + 8$

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 (H)</b>	7	10	4	6	9
<b>Output</b>	16	19	13	15	18

- A.  $H \times 2$                       B.  $H + 9$   
 C.  $H \times 9 - 1$                   D.  $H \times 11 - 2$

1.     **B**    

2) 

<b>Input (L)</b>	6	10	9	7	4
<b>Output</b>	46	70	64	52	34

- A.  $L \times 10$                       B.  $L \times 5 - 10$   
 C.  $L \times 6 + 10$                 D.  $L + 10$

2.     **C**    

3) 

<b>Input (G)</b>	9	10	7	4	6
<b>Output</b>	88	98	68	38	58

- A.  $G \times 10 - 2$                 B.  $G + 10$   
 C.  $G \times 13 + 2$                 D.  $G \times 11 - 2$

3.     **A**    

4) 

<b>Input (Q)</b>	14	18	12	17	15
<b>Output</b>	6	10	4	9	7

- A.  $Q \times 11 - 10$                 B.  $Q \times 10$   
 C.  $Q - 8$                         D.  $Q \times 10 + 10$

4.     **C**    

5) 

<b>Input (F)</b>	7	4	10	6	9
<b>Output</b>	17	14	20	16	19

- A.  $F + 10$                       B.  $F \times 10$   
 C.  $F + 3$                         D.  $F \times 10 + 5$

5.     **A**    

6) 

<b>Input (N)</b>	20	17	14	19	16
<b>Output</b>	10	7	4	9	6

- A.  $N + 2$                         B.  $N - 10$   
 C.  $N + 10$                         D.  $N \times 10 + 4$

6.     **B**    

7) 

<b>Input (U)</b>	4	6	7	10	9
<b>Output</b>	25	33	37	49	45

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

7.     **D**    

8) 

<b>Input (M)</b>	10	9	4	7	6
<b>Output</b>	40	35	10	25	20

- A.  $M + 10$                       B.  $M \times 10 + 10$   
 C.  $M \times 5 - 10$                 D.  $M \times 6 - 10$

8.     **C**    

9) 

<b>Input (J)</b>	7	9	4	6	10
<b>Output</b>	58	72	37	51	79

- A.  $J \times 7 + 12$                 B.  $J \times 7 + 9$   
 C.  $J + 9$                         D.  $J + 7$

9.     **B**    

10) 

<b>Input (P)</b>	9	4	6	7	10
<b>Output</b>	63	28	42	49	70

- A.  $P \times 7 - 9$                     B.  $P \times 7$   
 C.  $P + 8$                         D.  $P \times 11 + 8$

10.     **B**