



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

**Answers**

1) 

<b>Input (G)</b>	9	2	7	8	5
<b>Output</b>	54	5	40	47	26

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

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

2) 

<b>Input (H)</b>	15	17	19	18	12
<b>Output</b>	5	7	9	8	2

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

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

3) 

<b>Input (F)</b>	9	5	2	7	8
<b>Output</b>	36	20	8	28	32

A.  $F \times 5 - 10$ 
B.  $F \times 4 + 12$   
C.  $F \times 6 + 10$ 
D.  $F \times 4$

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

4) 

<b>Input (L)</b>	2	8	5	7	9
<b>Output</b>	10	16	13	15	17

A.  $L + 2$ 
B.  $L \times 8$   
C.  $L \times 10 + 2$ 
D.  $L + 8$

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

5) 

<b>Input (P)</b>	7	9	5	8	2
<b>Output</b>	40	54	26	47	5

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

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

6) 

<b>Input (S)</b>	8	7	5	9	2
<b>Output</b>	26	24	20	28	14

A.  $S + 2$ 
B.  $S \times 3 - 10$   
C.  $S \times 7 + 10$ 
D.  $S \times 2 + 10$

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

7) 

<b>Input (Q)</b>	12	10	14	7	13
<b>Output</b>	7	5	9	2	8

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

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

8) 

<b>Input (J)</b>	2	9	7	8	5
<b>Output</b>	8	22	18	20	14

A.  $J \times 2$ 
B.  $J \times 6 + 4$   
C.  $J \times 2 + 4$ 
D.  $J + 4$

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

9) 

<b>Input (N)</b>	9	2	7	8	5
<b>Output</b>	45	10	35	40	25

A.  $N \times 9 + 4$ 
B.  $N + 5$   
C.  $N \times 8 - 4$ 
D.  $N \times 5$

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

10) 

<b>Input (T)</b>	2	9	7	8	5
<b>Output</b>	16	44	36	40	28

A.  $T \times 4$ 
B.  $T \times 8 + 8$   
C.  $T \times 4 + 8$ 
D.  $T \times 4 + 9$

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



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

**Answers**

1) 

<b>Input (G)</b>	9	2	7	8	5
<b>Output</b>	54	5	40	47	26

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

1.     **C**    

2) 

<b>Input (H)</b>	15	17	19	18	12
<b>Output</b>	5	7	9	8	2

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

2.     **B**    

3) 

<b>Input (F)</b>	9	5	2	7	8
<b>Output</b>	36	20	8	28	32

 A.  $F \times 5 - 10$       B.  $F \times 4 + 12$   
 C.  $F \times 6 + 10$       D.  $F \times 4$

3.     **D**    

4.     **D**    

4) 

<b>Input (L)</b>	2	8	5	7	9
<b>Output</b>	10	16	13	15	17

 A.  $L + 2$       B.  $L \times 8$   
 C.  $L \times 10 + 2$       D.  $L + 8$

5.     **A**    

6.     **D**    

5) 

<b>Input (P)</b>	7	9	5	8	2
<b>Output</b>	40	54	26	47	5

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

7.     **A**    

8.     **C**    

6) 

<b>Input (S)</b>	8	7	5	9	2
<b>Output</b>	26	24	20	28	14

 A.  $S + 2$       B.  $S \times 3 - 10$   
 C.  $S \times 7 + 10$       D.  $S \times 2 + 10$

9.     **D**    

10.     **C**    

7) 

<b>Input (Q)</b>	12	10	14	7	13
<b>Output</b>	7	5	9	2	8

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

8) 

<b>Input (J)</b>	2	9	7	8	5
<b>Output</b>	8	22	18	20	14

 A.  $J \times 2$       B.  $J \times 6 + 4$   
 C.  $J \times 2 + 4$       D.  $J + 4$

9) 

<b>Input (N)</b>	9	2	7	8	5
<b>Output</b>	45	10	35	40	25

 A.  $N \times 9 + 4$       B.  $N + 5$   
 C.  $N \times 8 - 4$       D.  $N \times 5$

10) 

<b>Input (T)</b>	2	9	7	8	5
<b>Output</b>	16	44	36	40	28

 A.  $T \times 4$       B.  $T \times 8 + 8$   
 C.  $T \times 4 + 8$       D.  $T \times 4 + 9$