



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

**Answers**

1) 

<b>Input (T)</b>	2	7	6	9	8
<b>Output</b>	5	10	9	12	11

- A.  $T + 3$                       B.  $T \times 8 + 6$   
 C.  $T \times 2 - 6$                 D.  $T \times 6$

2) 

<b>Input (V)</b>	8	7	6	9	2
<b>Output</b>	80	70	60	90	20

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

3) 

<b>Input (G)</b>	8	7	6	9	2
<b>Output</b>	46	39	32	53	4

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

4) 

<b>Input (Y)</b>	7	2	8	9	6
<b>Output</b>	72	22	82	92	62

- A.  $Y \times 10 + 2$                 B.  $Y \times 14 + 2$   
 C.  $Y \times 9 - 2$                       D.  $Y \times 10 - 3$

5) 

<b>Input (R)</b>	2	7	8	6	9
<b>Output</b>	12	27	30	24	33

- A.  $R \times 6$                         B.  $R \times 7 + 6$   
 C.  $R \times 3 + 6$                 D.  $R + 6$

6) 

<b>Input (F)</b>	8	6	7	2	9
<b>Output</b>	78	58	68	18	88

- A.  $F \times 11 - 2$                 B.  $F \times 10 + 1$   
 C.  $F + 10$                         D.  $F \times 10 - 2$

7) 

<b>Input (U)</b>	2	6	9	7	8
<b>Output</b>	7	11	14	12	13

- A.  $U + 5$                         B.  $U \times 7 - 10$   
 C.  $U + 10$                       D.  $U \times 5 + 13$

8) 

<b>Input (H)</b>	17	18	19	16	12
<b>Output</b>	7	8	9	6	2

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

9) 

<b>Input (Q)</b>	2	9	6	7	8
<b>Output</b>	8	36	24	28	32

- A.  $Q \times 4 + 5$                 B.  $Q \times 4$   
 C.  $Q \times 9 + 6$                 D.  $Q + 4$

10) 

<b>Input (Z)</b>	13	15	16	9	14
<b>Output</b>	6	8	9	2	7

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

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



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

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1) 

<b>Input (T)</b>	2	7	6	9	8
<b>Output</b>	5	10	9	12	11

- A.  $T + 3$                       B.  $T \times 8 + 6$   
 C.  $T \times 2 - 6$                 D.  $T \times 6$

1.   **A**  

2) 

<b>Input (V)</b>	8	7	6	9	2
<b>Output</b>	80	70	60	90	20

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

2.   **C**  

3) 

<b>Input (G)</b>	8	7	6	9	2
<b>Output</b>	46	39	32	53	4

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

3.   **B**  

4) 

<b>Input (Y)</b>	7	2	8	9	6
<b>Output</b>	72	22	82	92	62

- A.  $Y \times 10 + 2$                 B.  $Y \times 14 + 2$   
 C.  $Y \times 9 - 2$                  D.  $Y \times 10 - 3$

4.   **A**  

5) 

<b>Input (R)</b>	2	7	8	6	9
<b>Output</b>	12	27	30	24	33

- A.  $R \times 6$                         B.  $R \times 7 + 6$   
 C.  $R \times 3 + 6$                 D.  $R + 6$

5.   **C**  

6) 

<b>Input (F)</b>	8	6	7	2	9
<b>Output</b>	78	58	68	18	88

- A.  $F \times 11 - 2$                 B.  $F \times 10 + 1$   
 C.  $F + 10$                         D.  $F \times 10 - 2$

6.   **D**  

7) 

<b>Input (U)</b>	2	6	9	7	8
<b>Output</b>	7	11	14	12	13

- A.  $U + 5$                         B.  $U \times 7 - 10$   
 C.  $U + 10$                       D.  $U \times 5 + 13$

7.   **A**  

8) 

<b>Input (H)</b>	17	18	19	16	12
<b>Output</b>	7	8	9	6	2

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

8.   **B**  

9) 

<b>Input (Q)</b>	2	9	6	7	8
<b>Output</b>	8	36	24	28	32

- A.  $Q \times 4 + 5$                 B.  $Q \times 4$   
 C.  $Q \times 9 + 6$                 D.  $Q + 4$

9.   **B**  

10) 

<b>Input (Z)</b>	13	15	16	9	14
<b>Output</b>	6	8	9	2	7

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

10.   **D**