



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

**Answers**

1) 

<b>Input (Z)</b>	9	5	7	2	10
<b>Output</b>	71	43	57	22	78

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

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

2) 

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

A.  $Q + 4$  B.  $Q \times 3 + 3$   
C.  $Q \times 3$  D.  $Q + 3$

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

3) 

<b>Input (V)</b>	2	5	10	7	9
<b>Output</b>	6	27	62	41	55

A.  $V \times 7 + 10$  B.  $V \times 7 - 8$   
C.  $V \times 8$  D.  $V \times 7 - 7$

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

4) 

<b>Input (Y)</b>	5	7	2	10	9
<b>Output</b>	22	28	13	37	34

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

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

5) 

<b>Input (M)</b>	7	5	2	9	10
<b>Output</b>	34	26	14	42	46

A.  $M \times 4 + 7$  B.  $M \times 4 + 6$   
C.  $M + 4$  D.  $M \times 6$

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

6) 

<b>Input (P)</b>	7	2	9	10	5
<b>Output</b>	55	10	73	82	37

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

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

7) 

<b>Input (K)</b>	2	10	7	9	5
<b>Output</b>	12	20	17	19	15

A.  $K + 10$  B.  $K \times 13 - 4$   
C.  $K \times 4$  D.  $K \times 13 + 4$

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

8) 

<b>Input (H)</b>	20	12	15	19	17
<b>Output</b>	10	2	5	9	7

A.  $H \times 10 - 5$  B.  $H + 10$   
C.  $H \times 11 - 2$  D.  $H - 10$

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

9) 

<b>Input (G)</b>	7	2	10	5	9
<b>Output</b>	14	4	20	10	18

A.  $G \times 2 - 6$  B.  $G \times 2 + 4$   
C.  $G \times 2$  D.  $G \times 1 - 3$

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

10) 

<b>Input (L)</b>	20	12	17	15	19
<b>Output</b>	10	2	7	5	9

A.  $L - 10$  B.  $L \times 13 - 2$   
C.  $L + 10$  D.  $L \times 10 - 5$

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



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

**Answers**

1) 

<b>Input (Z)</b>	9	5	7	2	10
<b>Output</b>	71	43	57	22	78

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

1.     **C**    

2) 

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

A.  $Q + 4$ 
B.  $Q \times 3 + 3$   
C.  $Q \times 3$ 
D.  $Q + 3$

2.     **D**    

3) 

<b>Input (V)</b>	2	5	10	7	9
<b>Output</b>	6	27	62	41	55

A.  $V \times 7 + 10$ 
B.  $V \times 7 - 8$   
C.  $V \times 8$ 
D.  $V \times 7 - 7$

3.     **B**    

4) 

<b>Input (Y)</b>	5	7	2	10	9
<b>Output</b>	22	28	13	37	34

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

4.     **D**    

5) 

<b>Input (M)</b>	7	5	2	9	10
<b>Output</b>	34	26	14	42	46

A.  $M \times 4 + 7$ 
B.  $M \times 4 + 6$   
C.  $M + 4$ 
D.  $M \times 6$

5.     **B**    

6) 

<b>Input (P)</b>	7	2	9	10	5
<b>Output</b>	55	10	73	82	37

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

6.     **C**    

7) 

<b>Input (K)</b>	2	10	7	9	5
<b>Output</b>	12	20	17	19	15

A.  $K + 10$ 
B.  $K \times 13 - 4$   
C.  $K \times 4$ 
D.  $K \times 13 + 4$

7.     **A**    

8) 

<b>Input (H)</b>	20	12	15	19	17
<b>Output</b>	10	2	5	9	7

A.  $H \times 10 - 5$ 
B.  $H + 10$   
C.  $H \times 11 - 2$ 
D.  $H - 10$

8.     **D**    

9) 

<b>Input (G)</b>	7	2	10	5	9
<b>Output</b>	14	4	20	10	18

A.  $G \times 2 - 6$ 
B.  $G \times 2 + 4$   
C.  $G \times 2$ 
D.  $G \times 1 - 3$

9.     **C**    

10) 

<b>Input (L)</b>	20	12	17	15	19
<b>Output</b>	10	2	7	5	9

A.  $L - 10$ 
B.  $L \times 13 - 2$   
C.  $L + 10$ 
D.  $L \times 10 - 5$

10.     **A**