



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

**Answers**

1) 

<b>Input (M)</b>	8	4	2	3	5
<b>Output</b>	31	11	1	6	16

A.  $M \times 5$ 
B.  $M \times 8 - 9$   
C.  $M \times 5 + 12$ 
D.  $M \times 5 - 9$

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

2) 

<b>Input (S)</b>	5	8	2	3	4
<b>Output</b>	17	23	11	13	15

A.  $S \times 7$ 
B.  $S \times 2 + 7$   
C.  $S \times 2 + 6$ 
D.  $S + 7$

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

3) 

<b>Input (U)</b>	11	9	10	12	15
<b>Output</b>	4	2	3	5	8

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

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

4) 

<b>Input (P)</b>	14	11	10	8	9
<b>Output</b>	8	5	4	2	3

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

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

5) 

<b>Input (G)</b>	4	2	5	3	8
<b>Output</b>	19	5	26	12	47

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

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

6) 

<b>Input (R)</b>	2	8	3	5	4
<b>Output</b>	10	16	11	13	12

A.  $R + 3$ 
B.  $R + 8$   
C.  $R \times 12 + 3$ 
D.  $R \times 7 - 3$

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

7) 

<b>Input (V)</b>	8	2	4	3	5
<b>Output</b>	17	11	13	12	14

A.  $V \times 14 + 2$ 
B.  $V \times 8 - 2$   
C.  $V \times 2$ 
D.  $V + 9$

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

8) 

<b>Input (Z)</b>	8	5	4	3	2
<b>Output</b>	24	15	12	9	6

A.  $Z + 4$ 
B.  $Z \times 3 + 5$   
C.  $Z \times 3$ 
D.  $Z \times 6 - 4$

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

9) 

<b>Input (Q)</b>	5	3	4	8	2
<b>Output</b>	16	12	14	22	10

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

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

10) 

<b>Input (Y)</b>	3	5	8	4	2
<b>Output</b>	27	45	72	36	18

A.  $Y \times 11 - 2$ 
B.  $Y \times 9 - 4$   
C.  $Y \times 14 + 2$ 
D.  $Y \times 9$

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



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

**Answers**

1) 

<b>Input (M)</b>	8	4	2	3	5
<b>Output</b>	31	11	1	6	16

A.  $M \times 5$ 
B.  $M \times 8 - 9$   
C.  $M \times 5 + 12$ 
D.  $M \times 5 - 9$

1.     **D**    

2) 

<b>Input (S)</b>	5	8	2	3	4
<b>Output</b>	17	23	11	13	15

A.  $S \times 7$ 
B.  $S \times 2 + 7$   
C.  $S \times 2 + 6$ 
D.  $S + 7$

2.     **B**    

3) 

<b>Input (U)</b>	11	9	10	12	15
<b>Output</b>	4	2	3	5	8

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

3.     **D**    

4) 

<b>Input (P)</b>	14	11	10	8	9
<b>Output</b>	8	5	4	2	3

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

4.     **B**    

5) 

<b>Input (G)</b>	4	2	5	3	8
<b>Output</b>	19	5	26	12	47

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

5.     **B**    

6) 

<b>Input (R)</b>	2	8	3	5	4
<b>Output</b>	10	16	11	13	12

A.  $R + 3$ 
B.  $R + 8$   
C.  $R \times 12 + 3$ 
D.  $R \times 7 - 3$

6.     **B**    

7) 

<b>Input (V)</b>	8	2	4	3	5
<b>Output</b>	17	11	13	12	14

A.  $V \times 14 + 2$ 
B.  $V \times 8 - 2$   
C.  $V \times 2$ 
D.  $V + 9$

7.     **D**    

8) 

<b>Input (Z)</b>	8	5	4	3	2
<b>Output</b>	24	15	12	9	6

A.  $Z + 4$ 
B.  $Z \times 3 + 5$   
C.  $Z \times 3$ 
D.  $Z \times 6 - 4$

8.     **C**    

9) 

<b>Input (Q)</b>	5	3	4	8	2
<b>Output</b>	16	12	14	22	10

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

9.     **A**    

10) 

<b>Input (Y)</b>	3	5	8	4	2
<b>Output</b>	27	45	72	36	18

A.  $Y \times 11 - 2$ 
B.  $Y \times 9 - 4$   
C.  $Y \times 14 + 2$ 
D.  $Y \times 9$

10.     **D**