



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

**Answers**

1) 

<b>Input (S)</b>	3	4	6	5	8
<b>Output</b>	21	28	42	35	56

- A.  $S \times 9 + 4$       B.  $S \times 8 - 4$   
 C.  $S \times 7$       D.  $S \times 4$

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

2) 

<b>Input (V)</b>	4	6	5	3	8
<b>Output</b>	16	24	20	12	32

- A.  $V \times 7 - 8$       B.  $V \times 4 + 7$   
 C.  $V \times 4$       D.  $V + 8$

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

3) 

<b>Input (Y)</b>	4	8	5	6	3
<b>Output</b>	17	25	19	21	15

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

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

4) 

<b>Input (M)</b>	14	10	11	12	9
<b>Output</b>	8	4	5	6	3

- A.  $M \times 8 + 8$       B.  $M - 6$   
 C.  $M + 8$       D.  $M \times 8$

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

5) 

<b>Input (Z)</b>	3	5	8	6	4
<b>Output</b>	21	41	71	51	31

- A.  $Z + 10$       B.  $Z \times 13 - 9$   
 C.  $Z \times 9$       D.  $Z \times 10 - 9$

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

6) 

<b>Input (F)</b>	4	6	8	5	3
<b>Output</b>	7	9	11	8	6

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

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

7) 

<b>Input (J)</b>	4	8	5	6	3
<b>Output</b>	13	17	14	15	12

- A.  $J \times 9$       B.  $J + 9$   
 C.  $J \times 3$       D.  $J + 3$

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

8) 

<b>Input (N)</b>	6	4	3	5	8
<b>Output</b>	29	17	11	23	41

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

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

9) 

<b>Input (T)</b>	13	10	15	12	11
<b>Output</b>	6	3	8	5	4

- A.  $T - 7$       B.  $T \times 10$   
 C.  $T \times 7 + 9$       D.  $T \times 7 - 12$

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

10) 

<b>Input (R)</b>	4	3	5	8	6
<b>Output</b>	44	35	53	80	62

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

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



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

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1) 

<b>Input (S)</b>	3	4	6	5	8
<b>Output</b>	21	28	42	35	56

- A.  $S \times 9 + 4$       B.  $S \times 8 - 4$   
 C.  $S \times 7$             D.  $S \times 4$

1.     **C**    

2) 

<b>Input (V)</b>	4	6	5	3	8
<b>Output</b>	16	24	20	12	32

- A.  $V \times 7 - 8$       B.  $V \times 4 + 7$   
 C.  $V \times 4$             D.  $V + 8$

2.     **C**    

3) 

<b>Input (Y)</b>	4	8	5	6	3
<b>Output</b>	17	25	19	21	15

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

3.     **D**    

4) 

<b>Input (M)</b>	14	10	11	12	9
<b>Output</b>	8	4	5	6	3

- A.  $M \times 8 + 8$       B.  $M - 6$   
 C.  $M + 8$             D.  $M \times 8$

4.     **B**    

5) 

<b>Input (Z)</b>	3	5	8	6	4
<b>Output</b>	21	41	71	51	31

- A.  $Z + 10$             B.  $Z \times 13 - 9$   
 C.  $Z \times 9$             D.  $Z \times 10 - 9$

5.     **D**    

6) 

<b>Input (F)</b>	4	6	8	5	3
<b>Output</b>	7	9	11	8	6

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

6.     **B**    

7) 

<b>Input (J)</b>	4	8	5	6	3
<b>Output</b>	13	17	14	15	12

- A.  $J \times 9$             B.  $J + 9$   
 C.  $J \times 3$             D.  $J + 3$

7.     **B**    

8) 

<b>Input (N)</b>	6	4	3	5	8
<b>Output</b>	29	17	11	23	41

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

8.     **A**    

9) 

<b>Input (T)</b>	13	10	15	12	11
<b>Output</b>	6	3	8	5	4

- A.  $T - 7$             B.  $T \times 10$   
 C.  $T \times 7 + 9$       D.  $T \times 7 - 12$

9.     **A**    

10) 

<b>Input (R)</b>	4	3	5	8	6
<b>Output</b>	44	35	53	80	62

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

10.     **A**