Name: _____

Answers

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

1)

Input (V)	10	8	5	2	3
Output	13	11	8	5	6

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

1. _____

2. _____

2)

Input (Y)	10	6	7	4	9
Output	40	24	28	16	36

A. $Y \times 4$ B. $Y + 4$
C. $Y \times 4 + 11$ D. $Y \times 8 + 9$

3. _____

4. _____

3)

Input (N)	3	6	7	10	5
Output	16	37	44	65	30

A. $N \times 7 - 5$ B. $N \times 7 - 7$
C. $N \times 12 + 5$ D. $N \times 7 + 8$

5. _____

6. _____

4)

Input (P)	7	5	9	8	3
Output	12	10	14	13	8

A. $P \times 8$ B. $P + 5$
C. $P \times 5$ D. $P \times 9 + 8$

7. _____

8. _____

5)

Input (R)	2	5	4	6	7
Output	6	27	20	34	41

A. $R \times 10 + 8$ B. $R \times 7 - 9$
C. $R \times 7 - 8$ D. $R + 8$

9. _____

10. _____

6)

Input (Q)	3	9	4	8	10
Output	13	19	14	18	20

A. $Q \times 15 + 9$ B. $Q \times 10$
C. $Q \times 10 - 8$ D. $Q + 10$

7)

Input (J)	6	2	9	3	7
Output	24	8	36	12	28

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

8)

Input (Z)	8	7	10	6	2
Output	15	14	17	13	9

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

9)

Input (L)	8	2	5	3	4
Output	66	18	42	26	34

A. $L \times 11 + 2$ B. $L \times 8 + 3$
C. $L \times 8 + 2$ D. $L + 8$

10)

Input (W)	17	13	14	19	16
Output	8	4	5	10	7

A. $W \times 9$ B. $W + 10$
C. $W - 9$ D. $W \times 11 + 10$

1-10	90	80	70	60	50	40	30	20	10	0

Name: **Answer Key**

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

Answers

1)

Input (V)	10	8	5	2	3
Output	13	11	8	5	6

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

1. _____ **A**

2)

Input (Y)	10	6	7	4	9
Output	40	24	28	16	36

A. $Y \times 4$ B. $Y + 4$
C. $Y \times 4 + 11$ D. $Y \times 8 + 9$

2. _____ **A**

3)

Input (N)	3	6	7	10	5
Output	16	37	44	65	30

A. $N \times 7 - 5$ B. $N \times 7 - 7$
C. $N \times 12 + 5$ D. $N \times 7 + 8$

3. _____ **A**

4)

Input (P)	7	5	9	8	3
Output	12	10	14	13	8

A. $P \times 8$ B. $P + 5$
C. $P \times 5$ D. $P \times 9 + 8$

4. _____ **B**

5)

Input (R)	2	5	4	6	7
Output	6	27	20	34	41

A. $R \times 10 + 8$ B. $R \times 7 - 9$
C. $R \times 7 - 8$ D. $R + 8$

5. _____ **C**

6)

Input (Q)	3	9	4	8	10
Output	13	19	14	18	20

A. $Q \times 15 + 9$ B. $Q \times 10$
C. $Q \times 10 - 8$ D. $Q + 10$

6. _____ **D**

7)

Input (J)	6	2	9	3	7
Output	24	8	36	12	28

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

7. _____ **D**

8)

Input (Z)	8	7	10	6	2
Output	15	14	17	13	9

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

8. _____ **C**

9)

Input (L)	8	2	5	3	4
Output	66	18	42	26	34

A. $L \times 11 + 2$ B. $L \times 8 + 3$
C. $L \times 8 + 2$ D. $L + 8$

9. _____ **C**

10)

Input (W)	17	13	14	19	16
Output	8	4	5	10	7

A. $W \times 9$ B. $W + 10$
C. $W - 9$ D. $W \times 11 + 10$

10. _____ **C**

1-10	90	80	70	60	50	40	30	20	10	0