



Finding Rule w/ Two Steps

Name: _____

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

Answers

1)

Input (T)	13	10	14	15	9
Output	8	5	9	10	4

A. $T \times 6 - 8$ B. $T \times 5 - 11$
 C. $T - 5$ D. $T \times 5 + 7$

2)

Input (N)	5	9	10	8	4
Output	16	36	41	31	11

A. $N \times 5 - 9$ B. $N \times 9$
 C. $N \times 9 + 9$ D. $N \times 5$

3)

Input (K)	4	10	9	5	8
Output	17	29	27	19	25

A. $K \times 3 - 9$ B. $K \times 2$
 C. $K \times 2 + 12$ D. $K \times 2 + 9$

4)

Input (U)	4	8	10	5	9
Output	25	41	49	29	45

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

5)

Input (Z)	10	5	9	8	4
Output	16	11	15	14	10

A. $Z \times 6 - 9$ B. $Z \times 7 - 8$
 C. $Z + 8$ D. $Z + 6$

6)

Input (J)	8	10	9	4	5
Output	48	60	54	24	30

A. $J \times 6$ B. $J \times 6 + 10$
 C. $J + 7$ D. $J \times 6 - 6$

7)

Input (S)	4	8	9	10	5
Output	8	12	13	14	9

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

8)

Input (R)	4	9	10	8	5
Output	19	54	61	47	26

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

9)

Input (L)	10	8	9	4	5
Output	90	72	81	36	45

A. $L \times 9 - 12$ B. $L \times 9$
 C. $L + 10$ D. $L \times 8 - 10$

10)

Input (P)	8	9	4	10	5
Output	21	23	13	25	15

A. $P \times 2 + 5$ B. $P \times 5$
 C. $P \times 4 - 5$ D. $P + 2$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Finding Rule w/ Two Steps

Name: **Answer Key**

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

1)	Input (T)	13	10	14	15	9
	Output	8	5	9	10	4

- A. $T \times 6 - 8$ B. $T \times 5 - 11$
 C. $T - 5$ D. $T \times 5 + 7$

2)	Input (N)	5	9	10	8	4
	Output	16	36	41	31	11

- A. $N \times 5 - 9$ B. $N \times 9$
 C. $N \times 9 + 9$ D. $N \times 5$

3)	Input (K)	4	10	9	5	8
	Output	17	29	27	19	25

- A. $K \times 3 - 9$ B. $K \times 2$
 C. $K \times 2 + 12$ D. $K \times 2 + 9$

4)	Input (U)	4	8	10	5	9
	Output	25	41	49	29	45

- A. $U + 4$ B. $U \times 4 + 9$
 C. $U \times 9$ D. $U \times 4 + 11$

5)	Input (Z)	10	5	9	8	4
	Output	16	11	15	14	10

- A. $Z \times 6 - 9$ B. $Z \times 7 - 8$
 C. $Z + 8$ D. $Z + 6$

6)	Input (J)	8	10	9	4	5
	Output	48	60	54	24	30

- A. $J \times 6$ B. $J \times 6 + 10$
 C. $J + 7$ D. $J \times 6 - 6$

7)	Input (S)	4	8	9	10	5
	Output	8	12	13	14	9

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

8)	Input (R)	4	9	10	8	5
	Output	19	54	61	47	26

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

9)	Input (L)	10	8	9	4	5
	Output	90	72	81	36	45

- A. $L \times 9 - 12$ B. $L \times 9$
 C. $L + 10$ D. $L \times 8 - 10$

10)	Input (P)	8	9	4	10	5
	Output	21	23	13	25	15

- A. $P \times 2 + 5$ B. $P \times 5$
 C. $P \times 4 - 5$ D. $P + 2$

Answers

1. **C**

2. **A**

3. **D**

4. **B**

5. **D**

6. **A**

7. **A**

8. **B**

9. **B**

10. **A**



Finding Rule w/ Two Steps

Name: _____

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

Answers

1)

Input (J)	6	7	5	10	8
Output	8	9	7	12	10

A. $J \times 2 - 5$ B. $J \times 6$
 C. $J \times 6 + 6$ D. $J + 2$

2)

Input (U)	13	15	10	12	11
Output	8	10	5	7	6

A. $U \times 8 + 8$ B. $U - 5$
 C. $U \times 5$ D. $U \times 8$

3)

Input (W)	5	6	10	8	7
Output	29	33	49	41	37

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

4)

Input (N)	5	6	8	7	10
Output	40	48	64	56	80

A. $N \times 11 - 3$ B. $N \times 8 - 5$
 C. $N + 3$ D. $N \times 8$

5)

Input (P)	8	10	7	6	5
Output	11	13	10	9	8

A. $P + 3$ B. $P \times 3 + 11$
 C. $P \times 3 - 10$ D. $P + 9$

6)

Input (V)	7	10	8	6	5
Output	35	53	41	29	23

A. $V + 6$ B. $V + 7$
 C. $V \times 5 - 7$ D. $V \times 6 - 7$

7)

Input (Z)	5	8	7	10	6
Output	22	40	34	52	28

A. $Z \times 6$ B. $Z \times 8 + 8$
 C. $Z \times 6 - 8$ D. $Z \times 6 - 9$

8)

Input (K)	10	8	5	6	7
Output	38	32	23	26	29

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

9)

Input (G)	5	10	6	7	8
Output	14	24	16	18	20

A. $G \times 5 - 4$ B. $G \times 2 + 6$
 C. $G \times 2$ D. $G \times 2 + 4$

10)

Input (F)	6	8	7	5	10
Output	30	40	35	25	50

A. $F \times 9 + 4$ B. $F \times 5 + 7$
 C. $F \times 5$ D. $F \times 5 - 6$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Finding Rule w/ Two Steps

Name: **Answer Key**

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

Input (J)	6	7	5	10	8
Output	8	9	7	12	10

- A. $J \times 2 - 5$ B. $J \times 6$
 C. $J \times 6 + 6$ D. $J + 2$

Input (U)	13	15	10	12	11
Output	8	10	5	7	6

- A. $U \times 8 + 8$ B. $U - 5$
 C. $U \times 5$ D. $U \times 8$

Input (W)	5	6	10	8	7
Output	29	33	49	41	37

- A. $W \times 4$ B. $W \times 4 + 9$
 C. $W \times 9$ D. $W \times 4 + 11$

Input (N)	5	6	8	7	10
Output	40	48	64	56	80

- A. $N \times 11 - 3$ B. $N \times 8 - 5$
 C. $N + 3$ D. $N \times 8$

Input (P)	8	10	7	6	5
Output	11	13	10	9	8

- A. $P + 3$ B. $P \times 3 + 11$
 C. $P \times 3 - 10$ D. $P + 9$

Input (V)	7	10	8	6	5
Output	35	53	41	29	23

- A. $V + 6$ B. $V + 7$
 C. $V \times 5 - 7$ D. $V \times 6 - 7$

Input (Z)	5	8	7	10	6
Output	22	40	34	52	28

- A. $Z \times 6$ B. $Z \times 8 + 8$
 C. $Z \times 6 - 8$ D. $Z \times 6 - 9$

Input (K)	10	8	5	6	7
Output	38	32	23	26	29

- A. $K \times 3$ B. $K \times 3 + 8$
 C. $K \times 8 + 8$ D. $K \times 3 + 11$

Input (G)	5	10	6	7	8
Output	14	24	16	18	20

- A. $G \times 5 - 4$ B. $G \times 2 + 6$
 C. $G \times 2$ D. $G \times 2 + 4$

Input (F)	6	8	7	5	10
Output	30	40	35	25	50

- A. $F \times 9 + 4$ B. $F \times 5 + 7$
 C. $F \times 5$ D. $F \times 5 - 6$

Answers

1. **D**

2. **B**

3. **B**

4. **D**

5. **A**

6. **D**

7. **C**

8. **B**

9. **D**

10. **C**



Finding Rule w/ Two Steps

Name: _____

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

Answers

- 1)

Input (W)	4	9	3	7	2
Output	13	18	12	16	11

 A. $W \times 14 + 10$ B. $W \times 9 + 9$
 C. $W \times 10$ D. $W + 9$
- 2)

Input (P)	2	4	3	9	7
Output	19	29	24	54	44

 A. $P \times 5 + 9$ B. $P + 9$
 C. $P \times 9 + 9$ D. $P + 5$
- 3)

Input (J)	7	4	9	2	3
Output	40	19	54	5	12

 A. $J + 7$ B. $J \times 7 - 11$
 C. $J \times 9 + 9$ D. $J \times 7 - 9$
- 4)

Input (F)	4	7	2	9	3
Output	42	72	22	92	32

 A. $F \times 10$ B. $F \times 14 + 2$
 C. $F + 10$ D. $F \times 10 + 2$
- 5)

Input (G)	16	14	9	11	10
Output	9	7	2	4	3

 A. $G \times 9 + 9$ B. $G \times 7$
 C. $G \times 9$ D. $G - 7$
- 6)

Input (Y)	9	4	7	3	2
Output	90	40	70	30	20

 A. $Y + 10$ B. $Y \times 10 - 4$
 C. $Y \times 3$ D. $Y \times 10$
- 7)

Input (L)	10	8	13	15	9
Output	4	2	7	9	3

 A. $L \times 6 - 9$ B. $L + 8$
 C. $L - 6$ D. $L \times 6 + 9$
- 8)

Input (R)	9	3	7	4	2
Output	11	5	9	6	4

 A. $R \times 7 + 6$ B. $R \times 2 - 9$
 C. $R + 2$ D. $R + 6$
- 9)

Input (T)	4	9	2	3	7
Output	21	36	15	18	30

 A. $T + 9$ B. $T \times 3 + 9$
 C. $T \times 3 + 10$ D. $T \times 4 - 9$
- 10)

Input (H)	2	3	4	9	7
Output	1	6	11	36	26

 A. $H \times 7 - 9$ B. $H \times 5 - 9$
 C. $H + 9$ D. $H + 5$

1. _____
 2. _____
 3. _____
 4. _____
 5. _____
 6. _____
 7. _____
 8. _____
 9. _____
 10. _____



Finding Rule w/ Two Steps

Name: **Answer Key**

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

Input (W)	4	9	3	7	2
Output	13	18	12	16	11

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

Input (P)	2	4	3	9	7
Output	19	29	24	54	44

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

Input (J)	7	4	9	2	3
Output	40	19	54	5	12

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

Input (F)	4	7	2	9	3
Output	42	72	22	92	32

- A. $F \times 10$ B. $F \times 14 + 2$
 C. $F + 10$ D. $F \times 10 + 2$

Input (G)	16	14	9	11	10
Output	9	7	2	4	3

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

Input (Y)	9	4	7	3	2
Output	90	40	70	30	20

- A. $Y + 10$ B. $Y \times 10 - 4$
 C. $Y \times 3$ D. $Y \times 10$

Input (L)	10	8	13	15	9
Output	4	2	7	9	3

- A. $L \times 6 - 9$ B. $L + 8$
 C. $L - 6$ D. $L \times 6 + 9$

Input (R)	9	3	7	4	2
Output	11	5	9	6	4

- A. $R \times 7 + 6$ B. $R \times 2 - 9$
 C. $R + 2$ D. $R + 6$

Input (T)	4	9	2	3	7
Output	21	36	15	18	30

- A. $T + 9$ B. $T \times 3 + 9$
 C. $T \times 3 + 10$ D. $T \times 4 - 9$

Input (H)	2	3	4	9	7
Output	1	6	11	36	26

- A. $H \times 7 - 9$ B. $H \times 5 - 9$
 C. $H + 9$ D. $H + 5$

Answers1. **D**2. **A**3. **D**4. **D**5. **D**6. **D**7. **C**8. **C**9. **B**10. **B**



Finding Rule w/ Two Steps

Name: _____

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

Answers

- 1)

Input (H)	7	10	4	6	9
Output	16	19	13	15	18

 A. $H \times 2$ B. $H + 9$
 C. $H \times 9 - 1$ D. $H \times 11 - 2$
- 2)

Input (L)	6	10	9	7	4
Output	46	70	64	52	34

 A. $L \times 10$ B. $L \times 5 - 10$
 C. $L \times 6 + 10$ D. $L + 10$
- 3)

Input (G)	9	10	7	4	6
Output	88	98	68	38	58

 A. $G \times 10 - 2$ B. $G + 10$
 C. $G \times 13 + 2$ D. $G \times 11 - 2$
- 4)

Input (Q)	14	18	12	17	15
Output	6	10	4	9	7

 A. $Q \times 11 - 10$ B. $Q \times 10$
 C. $Q - 8$ D. $Q \times 10 + 10$
- 5)

Input (F)	7	4	10	6	9
Output	17	14	20	16	19

 A. $F + 10$ B. $F \times 10$
 C. $F + 3$ D. $F \times 10 + 5$
- 6)

Input (N)	20	17	14	19	16
Output	10	7	4	9	6

 A. $N + 2$ B. $N - 10$
 C. $N + 10$ D. $N \times 10 + 4$
- 7)

Input (U)	4	6	7	10	9
Output	25	33	37	49	45

 A. $U \times 4 + 10$ B. $U + 4$
 C. $U \times 9 + 9$ D. $U \times 4 + 9$
- 8)

Input (M)	10	9	4	7	6
Output	40	35	10	25	20

 A. $M + 10$ B. $M \times 10 + 10$
 C. $M \times 5 - 10$ D. $M \times 6 - 10$
- 9)

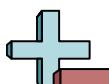
Input (J)	7	9	4	6	10
Output	58	72	37	51	79

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

Input (P)	9	4	6	7	10
Output	63	28	42	49	70

 A. $P \times 7 - 9$ B. $P \times 7$
 C. $P + 8$ D. $P \times 11 + 8$

1. _____
 2. _____
 3. _____
 4. _____
 5. _____
 6. _____
 7. _____
 8. _____
 9. _____
 10. _____



Finding Rule w/ Two Steps

Name: **Answer Key**

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

Answers

- 1)

Input (H)	7	10	4	6	9
Output	16	19	13	15	18

 A. $H \times 2$ B. $H + 9$
 C. $H \times 9 - 1$ D. $H \times 11 - 2$
- 2)

Input (L)	6	10	9	7	4
Output	46	70	64	52	34

 A. $L \times 10$ B. $L \times 5 - 10$
 C. $L \times 6 + 10$ D. $L + 10$
- 3)

Input (G)	9	10	7	4	6
Output	88	98	68	38	58

 A. $G \times 10 - 2$ B. $G + 10$
 C. $G \times 13 + 2$ D. $G \times 11 - 2$
- 4)

Input (Q)	14	18	12	17	15
Output	6	10	4	9	7

 A. $Q \times 11 - 10$ B. $Q \times 10$
 C. $Q - 8$ D. $Q \times 10 + 10$
- 5)

Input (F)	7	4	10	6	9
Output	17	14	20	16	19

 A. $F + 10$ B. $F \times 10$
 C. $F + 3$ D. $F \times 10 + 5$
- 6)

Input (N)	20	17	14	19	16
Output	10	7	4	9	6

 A. $N + 2$ B. $N - 10$
 C. $N + 10$ D. $N \times 10 + 4$
- 7)

Input (U)	4	6	7	10	9
Output	25	33	37	49	45

 A. $U \times 4 + 10$ B. $U + 4$
 C. $U \times 9 + 9$ D. $U \times 4 + 9$
- 8)

Input (M)	10	9	4	7	6
Output	40	35	10	25	20

 A. $M + 10$ B. $M \times 10 + 10$
 C. $M \times 5 - 10$ D. $M \times 6 - 10$
- 9)

Input (J)	7	9	4	6	10
Output	58	72	37	51	79

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

Input (P)	9	4	6	7	10
Output	63	28	42	49	70

 A. $P \times 7 - 9$ B. $P \times 7$
 C. $P + 8$ D. $P \times 11 + 8$

1. **B**
2. **C**
3. **A**
4. **C**
5. **A**
6. **B**
7. **D**
8. **C**
9. **B**
10. **B**



Finding Rule w/ Two Steps

Name: _____

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

Answers

- 1)

Input (G)	8	7	3	9	4
Output	25	23	15	27	17

 A. $G \times 2 + 9$ B. $G \times 9$
 C. $G \times 2 + 12$ D. $G \times 2$
- 2)

Input (F)	9	7	4	3	8
Output	11	9	6	5	10

 A. $F \times 2 + 12$ B. $F + 2$
 C. $F \times 7 + 10$ D. $F \times 2$
- 3)

Input (J)	3	8	4	9	7
Output	10	20	12	22	18

 A. $J + 2$ B. $J \times 2 + 7$
 C. $J \times 4$ D. $J \times 2 + 4$
- 4)

Input (K)	4	3	8	7	9
Output	24	18	48	42	54

 A. $K \times 3$ B. $K \times 8 - 3$
 C. $K \times 6$ D. $K + 3$
- 5)

Input (V)	7	9	3	8	4
Output	23	27	15	25	17

 A. $V \times 9$ B. $V \times 3 - 9$
 C. $V \times 2 + 9$ D. $V + 2$
- 6)

Input (Z)	15	14	10	9	13
Output	9	8	4	3	7

 A. $Z \times 9$ B. $Z - 6$
 C. $Z + 6$ D. $Z \times 6$
- 7)

Input (T)	3	8	4	9	7
Output	5	10	6	11	9

 A. $T \times 5 - 9$ B. $T + 2$
 C. $T \times 5 + 9$ D. $T \times 9$
- 8)

Input (Q)	4	3	9	7	8
Output	11	6	36	26	31

 A. $Q \times 9$ B. $Q \times 6 - 9$
 C. $Q \times 5 - 10$ D. $Q \times 5 - 9$
- 9)

Input (M)	4	3	7	9	8
Output	40	30	70	90	80

 A. $M \times 12 - 7$ B. $M \times 10$
 C. $M \times 10 - 8$ D. $M + 10$
- 10)

Input (H)	18	17	14	13	19
Output	8	7	4	3	9

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

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Finding Rule w/ Two Steps

Name: **Answer Key**

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

Answers

1)	<table border="1"> <thead> <tr> <th>Input (G)</th><th>8</th><th>7</th><th>3</th><th>9</th><th>4</th></tr> </thead> <tbody> <tr> <td>Output</td><td>25</td><td>23</td><td>15</td><td>27</td><td>17</td></tr> </tbody> </table>	Input (G)	8	7	3	9	4	Output	25	23	15	27	17	A. $G \times 2 + 9$	B. $G \times 9$
Input (G)	8	7	3	9	4										
Output	25	23	15	27	17										
		C. $G \times 2 + 12$	D. $G \times 2$												

2)	<table border="1"> <thead> <tr> <th>Input (F)</th><th>9</th><th>7</th><th>4</th><th>3</th><th>8</th></tr> </thead> <tbody> <tr> <td>Output</td><td>11</td><td>9</td><td>6</td><td>5</td><td>10</td></tr> </tbody> </table>	Input (F)	9	7	4	3	8	Output	11	9	6	5	10	A. $F \times 2 + 12$	B. $F + 2$
Input (F)	9	7	4	3	8										
Output	11	9	6	5	10										
		C. $F \times 7 + 10$	D. $F \times 2$												

3)	<table border="1"> <thead> <tr> <th>Input (J)</th><th>3</th><th>8</th><th>4</th><th>9</th><th>7</th></tr> </thead> <tbody> <tr> <td>Output</td><td>10</td><td>20</td><td>12</td><td>22</td><td>18</td></tr> </tbody> </table>	Input (J)	3	8	4	9	7	Output	10	20	12	22	18	A. $J + 2$	B. $J \times 2 + 7$
Input (J)	3	8	4	9	7										
Output	10	20	12	22	18										
		C. $J \times 4$	D. $J \times 2 + 4$												

4)	<table border="1"> <thead> <tr> <th>Input (K)</th><th>4</th><th>3</th><th>8</th><th>7</th><th>9</th></tr> </thead> <tbody> <tr> <td>Output</td><td>24</td><td>18</td><td>48</td><td>42</td><td>54</td></tr> </tbody> </table>	Input (K)	4	3	8	7	9	Output	24	18	48	42	54	A. $K \times 3$	B. $K \times 8 - 3$
Input (K)	4	3	8	7	9										
Output	24	18	48	42	54										
		C. $K \times 6$	D. $K + 3$												

5)	<table border="1"> <thead> <tr> <th>Input (V)</th><th>7</th><th>9</th><th>3</th><th>8</th><th>4</th></tr> </thead> <tbody> <tr> <td>Output</td><td>23</td><td>27</td><td>15</td><td>25</td><td>17</td></tr> </tbody> </table>	Input (V)	7	9	3	8	4	Output	23	27	15	25	17	A. $V \times 9$	B. $V \times 3 - 9$
Input (V)	7	9	3	8	4										
Output	23	27	15	25	17										
		C. $V \times 2 + 9$	D. $V + 2$												

6)	<table border="1"> <thead> <tr> <th>Input (Z)</th><th>15</th><th>14</th><th>10</th><th>9</th><th>13</th></tr> </thead> <tbody> <tr> <td>Output</td><td>9</td><td>8</td><td>4</td><td>3</td><td>7</td></tr> </tbody> </table>	Input (Z)	15	14	10	9	13	Output	9	8	4	3	7	A. $Z \times 9$	B. $Z - 6$
Input (Z)	15	14	10	9	13										
Output	9	8	4	3	7										
		C. $Z + 6$	D. $Z \times 6$												

7)	<table border="1"> <thead> <tr> <th>Input (T)</th><th>3</th><th>8</th><th>4</th><th>9</th><th>7</th></tr> </thead> <tbody> <tr> <td>Output</td><td>5</td><td>10</td><td>6</td><td>11</td><td>9</td></tr> </tbody> </table>	Input (T)	3	8	4	9	7	Output	5	10	6	11	9	A. $T \times 5 - 9$	B. $T + 2$
Input (T)	3	8	4	9	7										
Output	5	10	6	11	9										
		C. $T \times 5 + 9$	D. $T \times 9$												

8)	<table border="1"> <thead> <tr> <th>Input (Q)</th><th>4</th><th>3</th><th>9</th><th>7</th><th>8</th></tr> </thead> <tbody> <tr> <td>Output</td><td>11</td><td>6</td><td>36</td><td>26</td><td>31</td></tr> </tbody> </table>	Input (Q)	4	3	9	7	8	Output	11	6	36	26	31	A. $Q \times 9$	B. $Q \times 6 - 9$
Input (Q)	4	3	9	7	8										
Output	11	6	36	26	31										
		C. $Q \times 5 - 10$	D. $Q \times 5 - 9$												

9)	<table border="1"> <thead> <tr> <th>Input (M)</th><th>4</th><th>3</th><th>7</th><th>9</th><th>8</th></tr> </thead> <tbody> <tr> <td>Output</td><td>40</td><td>30</td><td>70</td><td>90</td><td>80</td></tr> </tbody> </table>	Input (M)	4	3	7	9	8	Output	40	30	70	90	80	A. $M \times 12 - 7$	B. $M \times 10$
Input (M)	4	3	7	9	8										
Output	40	30	70	90	80										
		C. $M \times 10 - 8$	D. $M + 10$												

10)	<table border="1"> <thead> <tr> <th>Input (H)</th><th>18</th><th>17</th><th>14</th><th>13</th><th>19</th></tr> </thead> <tbody> <tr> <td>Output</td><td>8</td><td>7</td><td>4</td><td>3</td><td>9</td></tr> </tbody> </table>	Input (H)	18	17	14	13	19	Output	8	7	4	3	9	A. $H \times 9$	B. $H - 10$
Input (H)	18	17	14	13	19										
Output	8	7	4	3	9										
		C. $H + 9$	D. $H \times 12 - 9$												

1. A
2. B
3. D
4. C
5. C
6. B
7. B
8. D
9. B
10. B



Finding Rule w/ Two Steps

Name: _____

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

Answers

1)

Input (R)	11	15	13	9	8
Output	6	10	8	4	3

A. $R \times 9$ B. $R \times 5 + 10$
 C. $R \times 5 - 12$ D. $R - 5$

2)

Input (P)	8	3	4	6	10
Output	17	12	13	15	19

A. $P \times 9$ B. $P + 3$
 C. $P + 9$ D. $P \times 8 - 3$

3)

Input (T)	3	8	6	10	4
Output	6	16	12	20	8

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

4)

Input (V)	3	6	4	8	10
Output	21	51	31	71	91

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

5)

Input (L)	6	4	3	8	10
Output	37	27	22	47	57

A. $L \times 5$ B. $L \times 5 + 9$
 C. $L \times 5 + 7$ D. $L + 5$

6)

Input (J)	17	13	12	15	19
Output	8	4	3	6	10

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

7)

Input (U)	3	8	6	10	4
Output	7	32	22	42	12

A. $U \times 5 - 8$ B. $U + 5$
 C. $U + 8$ D. $U \times 5$

8)

Input (N)	3	4	6	8	10
Output	29	36	50	64	78

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

9)

Input (H)	8	4	6	3	10
Output	64	32	48	24	80

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

10)

Input (Z)	6	3	10	8	4
Output	17	11	25	21	13

A. $Z \times 2 - 6$ B. $Z \times 3 - 5$
 C. $Z \times 2 + 5$ D. $Z + 5$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Finding Rule w/ Two Steps

Name: **Answer Key**

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

1)

Input (R)	11	15	13	9	8
Output	6	10	8	4	3

A. $R \times 9$ B. $R \times 5 + 10$
 C. $R \times 5 - 12$ D. $R - 5$

2)

Input (P)	8	3	4	6	10
Output	17	12	13	15	19

A. $P \times 9$ B. $P + 3$
 C. $P + 9$ D. $P \times 8 - 3$

3)

Input (T)	3	8	6	10	4
Output	6	16	12	20	8

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

4)

Input (V)	3	6	4	8	10
Output	21	51	31	71	91

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

5)

Input (L)	6	4	3	8	10
Output	37	27	22	47	57

A. $L \times 5$ B. $L \times 5 + 9$
 C. $L \times 5 + 7$ D. $L + 5$

6)

Input (J)	17	13	12	15	19
Output	8	4	3	6	10

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

7)

Input (U)	3	8	6	10	4
Output	7	32	22	42	12

A. $U \times 5 - 8$ B. $U + 5$
 C. $U + 8$ D. $U \times 5$

8)

Input (N)	3	4	6	8	10
Output	29	36	50	64	78

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

9)

Input (H)	8	4	6	3	10
Output	64	32	48	24	80

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

10)

Input (Z)	6	3	10	8	4
Output	17	11	25	21	13

A. $Z \times 2 - 6$ B. $Z \times 3 - 5$
 C. $Z \times 2 + 5$ D. $Z + 5$

Answers

1. **D**

2. **C**

3. **A**

4. **A**

5. **C**

6. **C**

7. **A**

8. **B**

9. **C**

10. **C**



Finding Rule w/ Two Steps

Name: _____

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

Answers

1)

Input (S)	3	4	6	5	8
Output	21	28	42	35	56

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

2)

Input (V)	4	6	5	3	8
Output	16	24	20	12	32

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

3)

Input (Y)	4	8	5	6	3
Output	17	25	19	21	15

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

4)

Input (M)	14	10	11	12	9
Output	8	4	5	6	3

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

5)

Input (Z)	3	5	8	6	4
Output	21	41	71	51	31

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

6)

Input (F)	4	6	8	5	3
Output	7	9	11	8	6

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

7)

Input (J)	4	8	5	6	3
Output	13	17	14	15	12

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

8)

Input (N)	6	4	3	5	8
Output	29	17	11	23	41

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

9)

Input (T)	13	10	15	12	11
Output	6	3	8	5	4

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

10)

Input (R)	4	3	5	8	6
Output	44	35	53	80	62

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

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Finding Rule w/ Two Steps

Name: **Answer Key**

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

Input (S)	3	4	6	5	8
Output	21	28	42	35	56

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

Input (V)	4	6	5	3	8
Output	16	24	20	12	32

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

Input (Y)	4	8	5	6	3
Output	17	25	19	21	15

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

Input (M)	14	10	11	12	9
Output	8	4	5	6	3

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

Input (Z)	3	5	8	6	4
Output	21	41	71	51	31

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

Input (F)	4	6	8	5	3
Output	7	9	11	8	6

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

Input (J)	4	8	5	6	3
Output	13	17	14	15	12

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

Input (N)	6	4	3	5	8
Output	29	17	11	23	41

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

Input (T)	13	10	15	12	11
Output	6	3	8	5	4

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

Input (R)	4	3	5	8	6
Output	44	35	53	80	62

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

Answers

1. **C**

2. **C**

3. **D**

4. **B**

5. **D**

6. **B**

7. **B**

8. **A**

9. **A**

10. **A**



Finding Rule w/ Two Steps

Name: _____

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

Answers

- 1)

Input (T)	2	7	6	9	8
Output	5	10	9	12	11

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

Input (V)	8	7	6	9	2
Output	80	70	60	90	20

 A. $V \times 10 + 6$ B. $V \times 10 - 10$
 C. $V \times 10$ D. $V + 10$
- 3)

Input (G)	8	7	6	9	2
Output	46	39	32	53	4

 A. $G \times 10$ B. $G \times 7 - 10$
 C. $G \times 10 + 10$ D. $G + 10$
- 4)

Input (Y)	7	2	8	9	6
Output	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)

Input (R)	2	7	8	6	9
Output	12	27	30	24	33

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

Input (F)	8	6	7	2	9
Output	78	58	68	18	88

 A. $F \times 11 - 2$ B. $F \times 10 + 1$
 C. $F + 10$ D. $F \times 10 - 2$
- 7)

Input (U)	2	6	9	7	8
Output	7	11	14	12	13

 A. $U + 5$ B. $U \times 7 - 10$
 C. $U + 10$ D. $U \times 5 + 13$
- 8)

Input (H)	17	18	19	16	12
Output	7	8	9	6	2

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

Input (Q)	2	9	6	7	8
Output	8	36	24	28	32

 A. $Q \times 4 + 5$ B. $Q \times 4$
 C. $Q \times 9 + 6$ D. $Q + 4$
- 10)

Input (Z)	13	15	16	9	14
Output	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. _____



Finding Rule w/ Two Steps

Name: **Answer Key**

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

Input (T)	2	7	6	9	8
Output	5	10	9	12	11

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

Input (V)	8	7	6	9	2
Output	80	70	60	90	20

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

Input (G)	8	7	6	9	2
Output	46	39	32	53	4

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

Input (Y)	7	2	8	9	6
Output	72	22	82	92	62

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

Input (R)	2	7	8	6	9
Output	12	27	30	24	33

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

Input (F)	8	6	7	2	9
Output	78	58	68	18	88

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

Input (U)	2	6	9	7	8
Output	7	11	14	12	13

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

Input (H)	17	18	19	16	12
Output	7	8	9	6	2

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

Input (Q)	2	9	6	7	8
Output	8	36	24	28	32

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

Input (Z)	13	15	16	9	14
Output	6	8	9	2	7

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

Answers

1. **A**

2. **C**

3. **B**

4. **A**

5. **C**

6. **D**

7. **A**

8. **B**

9. **B**

10. **D**



Finding Rule w/ Two Steps

Name: _____

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

Answers

1)

Input (T)	9	4	2	10	7
Output	54	19	5	61	40

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

2)

Input (P)	4	2	10	9	7
Output	28	14	70	63	49

A. $P \times 7$ B. $P \times 7 + 7$
 C. $P + 4$ D. $P + 7$

3)

Input (H)	10	4	2	9	7
Output	102	42	22	92	72

A. $H + 10$ B. $H \times 10 - 4$
 C. $H + 2$ D. $H \times 10 + 2$

4)

Input (G)	7	2	9	10	4
Output	15	10	17	18	12

A. $G \times 8 + 4$ B. $G \times 11 - 2$
 C. $G \times 8 - 1$ D. $G + 8$

5)

Input (L)	2	10	4	9	7
Output	11	19	13	18	16

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

6)

Input (Q)	7	4	10	9	2
Output	73	46	100	91	28

A. $Q \times 9 + 11$ B. $Q \times 9$
 C. $Q \times 9 + 10$ D. $Q \times 12 - 10$

7)

Input (M)	14	7	12	15	9
Output	9	2	7	10	4

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

8)

Input (J)	2	4	10	7	9
Output	3	13	43	28	38

A. $J \times 7$ B. $J \times 5 + 9$
 C. $J \times 4 - 7$ D. $J \times 5 - 7$

9)

Input (R)	10	9	7	2	4
Output	90	81	63	18	36

A. $R + 9$ B. $R \times 11 - 2$
 C. $R \times 9 - 5$ D. $R \times 9$

10)

Input (N)	7	2	4	9	10
Output	23	13	17	27	29

A. $N \times 2 + 9$ B. $N \times 3 - 9$
 C. $N \times 7 + 9$ D. $N + 2$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Finding Rule w/ Two Steps

Name: **Answer Key**

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

Answers

1)	<table border="1"> <thead> <tr> <th>Input (T)</th><th>9</th><th>4</th><th>2</th><th>10</th><th>7</th></tr> </thead> <tbody> <tr> <th>Output</th><td>54</td><td>19</td><td>5</td><td>61</td><td>40</td></tr> </tbody> </table>	Input (T)	9	4	2	10	7	Output	54	19	5	61	40	A. $T \times 7 - 9$	B. $T \times 9$
Input (T)	9	4	2	10	7										
Output	54	19	5	61	40										
		C. $T + 9$	D. $T \times 7 - 11$												

2)	<table border="1"> <thead> <tr> <th>Input (P)</th><th>4</th><th>2</th><th>10</th><th>9</th><th>7</th></tr> </thead> <tbody> <tr> <th>Output</th><td>28</td><td>14</td><td>70</td><td>63</td><td>49</td></tr> </tbody> </table>	Input (P)	4	2	10	9	7	Output	28	14	70	63	49	A. $P \times 7$	B. $P \times 7 + 7$
Input (P)	4	2	10	9	7										
Output	28	14	70	63	49										
		C. $P + 4$	D. $P + 7$												

3)	<table border="1"> <thead> <tr> <th>Input (H)</th><th>10</th><th>4</th><th>2</th><th>9</th><th>7</th></tr> </thead> <tbody> <tr> <th>Output</th><td>102</td><td>42</td><td>22</td><td>92</td><td>72</td></tr> </tbody> </table>	Input (H)	10	4	2	9	7	Output	102	42	22	92	72	A. $H + 10$	B. $H \times 10 - 4$
Input (H)	10	4	2	9	7										
Output	102	42	22	92	72										
		C. $H + 2$	D. $H \times 10 + 2$												

4)	<table border="1"> <thead> <tr> <th>Input (G)</th><th>7</th><th>2</th><th>9</th><th>10</th><th>4</th></tr> </thead> <tbody> <tr> <th>Output</th><td>15</td><td>10</td><td>17</td><td>18</td><td>12</td></tr> </tbody> </table>	Input (G)	7	2	9	10	4	Output	15	10	17	18	12	A. $G \times 8 + 4$	B. $G \times 11 - 2$
Input (G)	7	2	9	10	4										
Output	15	10	17	18	12										
		C. $G \times 8 - 1$	D. $G + 8$												

5)	<table border="1"> <thead> <tr> <th>Input (L)</th><th>2</th><th>10</th><th>4</th><th>9</th><th>7</th></tr> </thead> <tbody> <tr> <th>Output</th><td>11</td><td>19</td><td>13</td><td>18</td><td>16</td></tr> </tbody> </table>	Input (L)	2	10	4	9	7	Output	11	19	13	18	16	A. $L + 9$	B. $L \times 4$
Input (L)	2	10	4	9	7										
Output	11	19	13	18	16										
		C. $L \times 9 - 7$	D. $L \times 9$												

6)	<table border="1"> <thead> <tr> <th>Input (Q)</th><th>7</th><th>4</th><th>10</th><th>9</th><th>2</th></tr> </thead> <tbody> <tr> <th>Output</th><td>73</td><td>46</td><td>100</td><td>91</td><td>28</td></tr> </tbody> </table>	Input (Q)	7	4	10	9	2	Output	73	46	100	91	28	A. $Q \times 9 + 11$	B. $Q \times 9$
Input (Q)	7	4	10	9	2										
Output	73	46	100	91	28										
		C. $Q \times 9 + 10$	D. $Q \times 12 - 10$												

7)	<table border="1"> <thead> <tr> <th>Input (M)</th><th>14</th><th>7</th><th>12</th><th>15</th><th>9</th></tr> </thead> <tbody> <tr> <th>Output</th><td>9</td><td>2</td><td>7</td><td>10</td><td>4</td></tr> </tbody> </table>	Input (M)	14	7	12	15	9	Output	9	2	7	10	4	A. $M \times 10$	B. $M \times 10 + 10$
Input (M)	14	7	12	15	9										
Output	9	2	7	10	4										
		C. $M \times 7 - 10$	D. $M - 5$												

8)	<table border="1"> <thead> <tr> <th>Input (J)</th><th>2</th><th>4</th><th>10</th><th>7</th><th>9</th></tr> </thead> <tbody> <tr> <th>Output</th><td>3</td><td>13</td><td>43</td><td>28</td><td>38</td></tr> </tbody> </table>	Input (J)	2	4	10	7	9	Output	3	13	43	28	38	A. $J \times 7$	B. $J \times 5 + 9$
Input (J)	2	4	10	7	9										
Output	3	13	43	28	38										
		C. $J \times 4 - 7$	D. $J \times 5 - 7$												

9)	<table border="1"> <thead> <tr> <th>Input (R)</th><th>10</th><th>9</th><th>7</th><th>2</th><th>4</th></tr> </thead> <tbody> <tr> <th>Output</th><td>90</td><td>81</td><td>63</td><td>18</td><td>36</td></tr> </tbody> </table>	Input (R)	10	9	7	2	4	Output	90	81	63	18	36	A. $R + 9$	B. $R \times 11 - 2$
Input (R)	10	9	7	2	4										
Output	90	81	63	18	36										
		C. $R \times 9 - 5$	D. $R \times 9$												

10)	<table border="1"> <thead> <tr> <th>Input (N)</th><th>7</th><th>2</th><th>4</th><th>9</th><th>10</th></tr> </thead> <tbody> <tr> <th>Output</th><td>23</td><td>13</td><td>17</td><td>27</td><td>29</td></tr> </tbody> </table>	Input (N)	7	2	4	9	10	Output	23	13	17	27	29	A. $N \times 2 + 9$	B. $N \times 3 - 9$
Input (N)	7	2	4	9	10										
Output	23	13	17	27	29										
		C. $N \times 7 + 9$	D. $N + 2$												

1. **A**

2. **A**

3. **D**

4. **D**

5. **A**

6. **C**

7. **D**

8. **D**

9. **D**

10. **A**



Finding Rule w/ Two Steps

Name: _____

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

Answers

1)

Input (Z)	9	5	7	2	10
Output	71	43	57	22	78

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

2)

Input (Q)	9	5	7	2	10
Output	12	8	10	5	13

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

3)

Input (V)	2	5	10	7	9
Output	6	27	62	41	55

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

4)

Input (Y)	5	7	2	10	9
Output	22	28	13	37	34

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

5)

Input (M)	7	5	2	9	10
Output	34	26	14	42	46

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

6)

Input (P)	7	2	9	10	5
Output	55	10	73	82	37

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

7)

Input (K)	2	10	7	9	5
Output	12	20	17	19	15

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

8)

Input (H)	20	12	15	19	17
Output	10	2	5	9	7

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

9)

Input (G)	7	2	10	5	9
Output	14	4	20	10	18

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

10)

Input (L)	20	12	17	15	19
Output	10	2	7	5	9

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

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Finding Rule w/ Two Steps

Name: **Answer Key**

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

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Input (Z)	9	5	7	2	10
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9)

Input (G)	7	2	10	5	9
Output	14	4	20	10	18

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

10)

Input (L)	20	12	17	15	19
Output	10	2	7	5	9

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

Answers1. **C**2. **D**3. **B**4. **D**5. **B**6. **C**7. **A**8. **D**9. **C**10. **A**