



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. _____



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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. $Z + 8$

1. **C**

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. $Q + 3$

2. **D**

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. $V \times 7 - 7$

3. **B**

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. $Y \times 3 + 7$

4. **D**

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. $M \times 6$

5. **B**

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. $P \times 9 - 10$

6. **C**

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. $K \times 13 + 4$

7. **A**

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. $H - 10$

8. **D**

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. $G \times 1 - 3$

9. **C**

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. $L \times 10 - 5$

10. **A**