Finding Rule w/ Two Steps

Name: _____

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

1)

Input (K)	5	10	9	6	3
Output	13	18	17	14	11

A. K + 8   B. K × 8
C. K × 3   D. K × 8 + 2

2)

Input (H)	9	5	10	6	3
Output	35	15	40	20	5

A. H + 10   B. H × 6 - 10
C. H × 5 - 10   D. H × 10 + 10

3)

Input (S)	8	10	14	15	11
Output	3	5	9	10	6

A. S × 5   B. S - 5
C. S × 7   D. S × 5 - 6

4)

Input (Q)	6	9	5	3	10
Output	20	26	18	14	28

A. Q × 5 + 8   B. Q + 2
C. Q × 2 + 8   D. Q × 2

5)

Input (F)	16	17	12	13	10
Output	9	10	5	6	3

A. F × 7 - 7   B. F × 10 - 8
C. F × 7 + 10   D. F - 7

6)

Input (U)	3	10	9	6	5
Output	12	40	36	24	20

A. U × 4   B. U × 3
C. U × 4 + 2   D. U + 3

7)

Input (R)	9	3	5	6	10
Output	18	12	14	15	19

A. R + 9   B. R + 10
C. R × 9 + 13   D. R × 11 + 10

8)

Input (T)	6	5	9	10	3
Output	18	16	24	26	12

A. T + 6   B. T × 2 - 8
C. T × 2 + 6   D. T × 6

9)

Input (Y)	5	6	3	10	9
Output	43	50	29	78	71

A. Y + 7   B. Y × 7 + 10
C. Y × 7 + 8   D. Y × 8

10)

Input (M)	3	9	10	6	5
Output	11	47	53	29	23

A. M × 6 + 10   B. M × 6 - 8
C. M × 6 - 7   D. M × 11 + 7

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

Math

Name: **Answer Key**

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

1)

Input (K)	5	10	9	6	3
Output	13	18	17	14	11

A. K + 8   B. K × 8

C. K × 3   D. K × 8 + 2

1. **A**

2. **C**

2)

Input (H)	9	5	10	6	3
Output	35	15	40	20	5

A. H + 10   B. H × 6 - 10

C. H × 5 - 10   D. H × 10 + 10

3. **B**

4. **C**

3)

Input (S)	8	10	14	15	11
Output	3	5	9	10	6

A. S × 5   B. S - 5

C. S × 7   D. S × 5 - 6

5. **D**

6. **A**

4)

Input (Q)	6	9	5	3	10
Output	20	26	18	14	28

A. Q × 5 + 8   B. Q + 2

C. Q × 2 + 8   D. Q × 2

7. **A**

8. **C**

5)

Input (F)	16	17	12	13	10
Output	9	10	5	6	3

A. F × 7 - 7   B. F × 10 - 8

C. F × 7 + 10   D. F - 7

9. **C**

10. **C**

6)

Input (U)	3	10	9	6	5
Output	12	40	36	24	20

A. U × 4   B. U × 3

C. U × 4 + 2   D. U + 3

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Output	18	16	24	26	12

A. T + 6   B. T × 2 - 8

C. T × 2 + 6   D. T × 6

9)

Input (Y)	5	6	3	10	9
Output	43	50	29	78	71

A. Y + 7   B. Y × 7 + 10

C. Y × 7 + 8   D. Y × 8

10)

Input (M)	3	9	10	6	5
Output	11	47	53	29	23

A. M × 6 + 10   B. M × 6 - 8

C. M × 6 - 7   D. M × 11 + 7

Math

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