



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

Answers

<b>Input (K)</b>	17	13	18	14	16
<b>Output</b>	9	5	10	6	8

A. $K \times 11 - 6$	B. $K \times 8 - 9$
C. $K - 8$	D. $K \times 8 + 5$

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

<b>Input (S)</b>	13	7	11	14	10
<b>Output</b>	8	2	6	9	5

A. $S \times 5 + 2$	B. $S - 5$
C. $S \times 10 + 3$	D. $S \times 8 - 3$

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

<b>Input (F)</b>	7	2	10	9	8
<b>Output</b>	9	4	12	11	10

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

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

<b>Input (Y)</b>	6	2	9	4	3
<b>Output</b>	37	9	58	23	16

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

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

<b>Input (R)</b>	10	2	8	3	7
<b>Output</b>	16	8	14	9	13

A. $R \times 9$	B. $R + 6$
C. $R \times 6 - 12$	D. $R \times 11 + 9$

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

<b>Input (W)</b>	3	5	10	4	7
<b>Output</b>	8	10	15	9	12

A. $W + 4$	B. $W \times 7 + 4$
C. $W + 5$	D. $W \times 5 + 3$

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

<b>Input (L)</b>	7	3	5	4	10
<b>Output</b>	13	9	11	10	16

A. $L + 6$	B. $L \times 8 + 10$
C. $L + 10$	D. $L \times 6 + 13$

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

<b>Input (N)</b>	15	19	12	17	20
<b>Output</b>	5	9	2	7	10

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

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

<b>Input (H)</b>	7	3	9	4	5
<b>Output</b>	35	15	45	20	25

A. $H \times 5 + 1$	B. $H \times 2$
C. $H \times 4 - 2$	D. $H \times 5$

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

<b>Input (T)</b>	18	11	17	15	13
<b>Output</b>	9	2	8	6	4

A. $T \times 9 + 4$	B. $T \times 9 - 8$
C. $T - 9$	D. $T + 5$

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



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

1) 

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<b>Output</b>	9	5	10	6	8

A.  $K \times 11 - 6$  B.  $K \times 8 - 9$   
C.  $K - 8$  D.  $K \times 8 + 5$

2) 

<b>Input (S)</b>	13	7	11	14	10
<b>Output</b>	8	2	6	9	5

A.  $S \times 5 + 2$  B.  $S - 5$   
C.  $S \times 10 + 3$  D.  $S \times 8 - 3$

3) 

<b>Input (F)</b>	7	2	10	9	8
<b>Output</b>	9	4	12	11	10

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

4) 

<b>Input (Y)</b>	6	2	9	4	3
<b>Output</b>	37	9	58	23	16

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

5) 

<b>Input (R)</b>	10	2	8	3	7
<b>Output</b>	16	8	14	9	13

A.  $R \times 9$  B.  $R + 6$   
C.  $R \times 6 - 12$  D.  $R \times 11 + 9$

6) 

<b>Input (W)</b>	3	5	10	4	7
<b>Output</b>	8	10	15	9	12

A.  $W + 4$  B.  $W \times 7 + 4$   
C.  $W + 5$  D.  $W \times 5 + 3$

7) 

<b>Input (L)</b>	7	3	5	4	10
<b>Output</b>	13	9	11	10	16

A.  $L + 6$  B.  $L \times 8 + 10$   
C.  $L + 10$  D.  $L \times 6 + 13$

8) 

<b>Input (N)</b>	15	19	12	17	20
<b>Output</b>	5	9	2	7	10

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

9) 

<b>Input (H)</b>	7	3	9	4	5
<b>Output</b>	35	15	45	20	25

A.  $H \times 5 + 1$  B.  $H \times 2$   
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10) 

<b>Input (T)</b>	18	11	17	15	13
<b>Output</b>	9	2	8	6	4

A.  $T \times 9 + 4$  B.  $T \times 9 - 8$   
C.  $T - 9$  D.  $T + 5$

Answers

1.     **C**    

2.     **B**    

3.     **A**    

4.     **A**    

5.     **B**    

6.     **C**    

7.     **A**    

8.     **C**    

9.     **D**    

10.     **C**