



Determine what rule the function machine is using.

**Answers**

1)

| Input | Output |
|-------|--------|
| 25    | 30     |
| 24    | 29     |
| 47    | 52     |
| 42    | 47     |
| 49    | 54     |

- A. subtract 31  
B. add 24  
C. subtract 24  
D. add 5

2)

| Input | Output |
|-------|--------|
| 48    | 42     |
| 35    | 29     |
| 24    | 18     |
| 37    | 31     |
| 50    | 44     |

- A. subtract 6  
B. subtract 40  
C. add 34  
D. add 33

3)

| Input | Output |
|-------|--------|
| 40    | 54     |
| 39    | 53     |
| 35    | 49     |
| 27    | 41     |
| 12    | 26     |

- A. subtract 15  
B. add 15  
C. add 14  
D. subtract 20

4)

| Input | Output |
|-------|--------|
| 35    | 40     |
| 16    | 21     |
| 37    | 42     |
| 33    | 38     |
| 15    | 20     |

- A. add 5  
B. subtract 4  
C. subtract 8  
D. add 11

5)

| Input | Output |
|-------|--------|
| 36    | 47     |
| 35    | 46     |
| 32    | 43     |
| 50    | 61     |
| 31    | 42     |

- A. add 11  
B. subtract 23  
C. subtract 25  
D. add 28

6)

| Input | Output |
|-------|--------|
| 54    | 42     |
| 23    | 11     |
| 32    | 20     |
| 39    | 27     |
| 31    | 19     |

- A. add 30  
B. subtract 12  
C. subtract 33  
D. subtract 34

7)

| Input | Output |
|-------|--------|
| 57    | 47     |
| 33    | 23     |
| 23    | 13     |
| 42    | 32     |
| 45    | 35     |

- A. subtract 10  
B. subtract 15  
C. add 12  
D. subtract 12

8)

| Input | Output |
|-------|--------|
| 34    | 29     |
| 45    | 40     |
| 29    | 24     |
| 54    | 49     |
| 53    | 48     |

- A. add 12  
B. subtract 5  
C. add 11  
D. subtract 12

9)

| Input | Output |
|-------|--------|
| 56    | 47     |
| 45    | 36     |
| 44    | 35     |
| 49    | 40     |
| 35    | 26     |

- A. add 15  
B. add 14  
C. subtract 9  
D. subtract 10

1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_  
4. \_\_\_\_\_  
5. \_\_\_\_\_  
6. \_\_\_\_\_  
7. \_\_\_\_\_  
8. \_\_\_\_\_  
9. \_\_\_\_\_



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- A. subtract 31  
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| 48    | 42     |
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| 24    | 18     |
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- A. subtract 6  
B. subtract 40  
C. add 34  
D. add 33

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| Input | Output |
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| 40    | 54     |
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- A. subtract 15  
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4)

| Input | Output |
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| 35    | 40     |
| 16    | 21     |
| 37    | 42     |
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- A. add 5  
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D. add 11

5)

| Input | Output |
|-------|--------|
| 36    | 47     |
| 35    | 46     |
| 32    | 43     |
| 50    | 61     |
| 31    | 42     |

- A. add 11  
B. subtract 23  
C. subtract 25  
D. add 28

6)

| Input | Output |
|-------|--------|
| 54    | 42     |
| 23    | 11     |
| 32    | 20     |
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- A. add 30  
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C. subtract 33  
D. subtract 34

7)

| Input | Output |
|-------|--------|
| 57    | 47     |
| 33    | 23     |
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- A. subtract 10  
B. subtract 15  
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D. subtract 12

8)

| Input | Output |
|-------|--------|
| 34    | 29     |
| 45    | 40     |
| 29    | 24     |
| 54    | 49     |
| 53    | 48     |

- A. add 12  
B. subtract 5  
C. add 11  
D. subtract 12

9)

| Input | Output |
|-------|--------|
| 56    | 47     |
| 45    | 36     |
| 44    | 35     |
| 49    | 40     |
| 35    | 26     |

- A. add 15  
B. add 14  
C. subtract 9  
D. subtract 10

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