



Determine which choice best describes the rule the pattern is using.

**Answers**

- 1) 375 , 75 , 15 , 3  
 A. Add 5  
 B. Divide 5  
 C. Subtract 9  
 D. Multiply 10

- 2) 3 , 9 , 27 , 81 , 243  
 A. Multiply 3  
 B. Add 2  
 C. Subtract 9  
 D. Multiply 2

- 3) 26 , 22 , 18 , 14 , 10 , 6  
 A. Subtract 4  
 B. Add 3  
 C. Subtract 10  
 D. Multiply 5

- 4) 28 , 23 , 18 , 13 , 8  
 A. Add 4  
 B. Subtract 5  
 C. Subtract 3  
 D. Multiply 8

- 5) 8 , 24 , 72 , 216 , 648  
 A. Add 9  
 B. Subtract 8  
 C. Multiply 10  
 D. Multiply 3

- 6) 9 , 19 , 29 , 39 , 49 , 59  
 A. Add 2  
 B. Subtract 7  
 C. Add 10  
 D. Multiply 4

- 7) 1 , 7 , 13 , 19 , 25 , 31 , 37 , 43  
 A. Add 2  
 B. Subtract 5  
 C. Multiply 8  
 D. Add 6

- 8) 7 , 28 , 112 , 448  
 A. Add 9  
 B. Subtract 5  
 C. Multiply 8  
 D. Multiply 4

- 9) 625 , 125 , 25 , 5  
 A. Add 2  
 B. Divide 5  
 C. Subtract 10  
 D. Multiply 4

- 10) 25 , 22 , 19 , 16 , 13 , 10 , 7  
 A. Add 8  
 B. Subtract 3  
 C. Subtract 5  
 D. Multiply 8

- 11) 189 , 63 , 21 , 7  
 A. Add 2  
 B. Divide 3  
 C. Subtract 6  
 D. Multiply 9

- 12) 8 , 16 , 32 , 64 , 128  
 A. Multiply 2  
 B. Add 9  
 C. Subtract 5  
 D. Multiply 4

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Determine which choice best describes the rule the pattern is using.

**Answers**

- |   |   |
|---|---|
| <p>1) 375 , 75 , 15 , 3<br/>A. Add 5<br/>B. Divide 5<br/>C. Subtract 9<br/>D. Multiply 10</p>               | <p>2) 3 , 9 , 27 , 81 , 243<br/>A. Multiply 3<br/>B. Add 2<br/>C. Subtract 9<br/>D. Multiply 2</p>            |
| <p>3) 26 , 22 , 18 , 14 , 10 , 6<br/>A. Subtract 4<br/>B. Add 3<br/>C. Subtract 10<br/>D. Multiply 5</p>    | <p>4) 28 , 23 , 18 , 13 , 8<br/>A. Add 4<br/>B. Subtract 5<br/>C. Subtract 3<br/>D. Multiply 8</p>            |
| <p>5) 8 , 24 , 72 , 216 , 648<br/>A. Add 9<br/>B. Subtract 8<br/>C. Multiply 10<br/>D. Multiply 3</p>       | <p>6) 9 , 19 , 29 , 39 , 49 , 59<br/>A. Add 2<br/>B. Subtract 7<br/>C. Add 10<br/>D. Multiply 4</p>           |
| <p>7) 1 , 7 , 13 , 19 , 25 , 31 , 37 , 43<br/>A. Add 2<br/>B. Subtract 5<br/>C. Multiply 8<br/>D. Add 6</p> | <p>8) 7 , 28 , 112 , 448<br/>A. Add 9<br/>B. Subtract 5<br/>C. Multiply 8<br/>D. Multiply 4</p>               |
| <p>9) 625 , 125 , 25 , 5<br/>A. Add 2<br/>B. Divide 5<br/>C. Subtract 10<br/>D. Multiply 4</p>              | <p>10) 25 , 22 , 19 , 16 , 13 , 10 , 7<br/>A. Add 8<br/>B. Subtract 3<br/>C. Subtract 5<br/>D. Multiply 8</p> |
| <p>11) 189 , 63 , 21 , 7<br/>A. Add 2<br/>B. Divide 3<br/>C. Subtract 6<br/>D. Multiply 9</p>               | <p>12) 8 , 16 , 32 , 64 , 128<br/>A. Multiply 2<br/>B. Add 9<br/>C. Subtract 5<br/>D. Multiply 4</p>          |

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



Determine which choice best describes the rule the pattern is using.

**Answers**

- |  |   |
|--|---|
| <p>1) 189 , 63 , 21 , 7<br/>A. Divide 3<br/>B. Add 8<br/>C. Subtract 9<br/>D. Multiply 4</p>                 | <p>2) 29 , 24 , 19 , 14 , 9 , 4<br/>A. Add 4<br/>B. Subtract 5<br/>C. Subtract 7<br/>D. Multiply 2</p>      |
| <p>3) 6 , 12 , 24 , 48<br/>A. Add 4<br/>B. Subtract 2<br/>C. Multiply 2<br/>D. Multiply 5</p>                | <p>4) 5 , 14 , 23 , 32 , 41 , 50 , 59<br/>A. Add 8<br/>B. Subtract 9<br/>C. Multiply 3<br/>D. Add 9</p>     |
| <p>5) 7 , 9 , 11 , 13 , 15 , 17<br/>A. Add 10<br/>B. Subtract 6<br/>C. Multiply 4<br/>D. Add 2</p>           | <p>6) 4 , 16 , 64 , 256 , 1024<br/>A. Add 6<br/>B. Subtract 10<br/>C. Multiply 9<br/>D. Multiply 4</p>      |
| <p>7) 18 , 16 , 14 , 12 , 10 , 8 , 6<br/>A. Add 8<br/>B. Subtract 10<br/>C. Multiply 3<br/>D. Subtract 2</p> | <p>8) 16 , 14 , 12 , 10 , 8 , 6 , 4<br/>A. Add 4<br/>B. Subtract 6<br/>C. Multiply 7<br/>D. Subtract 2</p>  |
| <p>9) 512 , 128 , 32 , 8 , 2<br/>A. Add 8<br/>B. Subtract 6<br/>C. Divide 4<br/>D. Multiply 4</p>            | <p>10) 5 , 7 , 9 , 11 , 13 , 15 , 17 , 19<br/>A. Add 2<br/>B. Add 2<br/>C. Subtract 9<br/>D. Multiply 4</p> |
| <p>11) 112 , 56 , 28 , 14 , 7<br/>A. Add 2<br/>B. Divide 2<br/>C. Subtract 5<br/>D. Multiply 5</p>           | <p>12) 8 , 15 , 22 , 29 , 36 , 43<br/>A. Add 10<br/>B. Subtract 9<br/>C. Multiply 3<br/>D. Add 7</p>        |

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12. \_\_\_\_\_



Determine which choice best describes the rule the pattern is using.

**Answers**

- |  |   |
|--|---|
| <p>1) 189 , 63 , 21 , 7<br/>A. Divide 3<br/>B. Add 8<br/>C. Subtract 9<br/>D. Multiply 4</p>                 | <p>2) 29 , 24 , 19 , 14 , 9 , 4<br/>A. Add 4<br/>B. Subtract 5<br/>C. Subtract 7<br/>D. Multiply 2</p>      |
| <p>3) 6 , 12 , 24 , 48<br/>A. Add 4<br/>B. Subtract 2<br/>C. Multiply 2<br/>D. Multiply 5</p>                | <p>4) 5 , 14 , 23 , 32 , 41 , 50 , 59<br/>A. Add 8<br/>B. Subtract 9<br/>C. Multiply 3<br/>D. Add 9</p>     |
| <p>5) 7 , 9 , 11 , 13 , 15 , 17<br/>A. Add 10<br/>B. Subtract 6<br/>C. Multiply 4<br/>D. Add 2</p>           | <p>6) 4 , 16 , 64 , 256 , 1024<br/>A. Add 6<br/>B. Subtract 10<br/>C. Multiply 9<br/>D. Multiply 4</p>      |
| <p>7) 18 , 16 , 14 , 12 , 10 , 8 , 6<br/>A. Add 8<br/>B. Subtract 10<br/>C. Multiply 3<br/>D. Subtract 2</p> | <p>8) 16 , 14 , 12 , 10 , 8 , 6 , 4<br/>A. Add 4<br/>B. Subtract 6<br/>C. Multiply 7<br/>D. Subtract 2</p>  |
| <p>9) 512 , 128 , 32 , 8 , 2<br/>A. Add 8<br/>B. Subtract 6<br/>C. Divide 4<br/>D. Multiply 4</p>            | <p>10) 5 , 7 , 9 , 11 , 13 , 15 , 17 , 19<br/>A. Add 2<br/>B. Add 2<br/>C. Subtract 9<br/>D. Multiply 4</p> |
| <p>11) 112 , 56 , 28 , 14 , 7<br/>A. Add 2<br/>B. Divide 2<br/>C. Subtract 5<br/>D. Multiply 5</p>           | <p>12) 8 , 15 , 22 , 29 , 36 , 43<br/>A. Add 10<br/>B. Subtract 9<br/>C. Multiply 3<br/>D. Add 7</p>        |

- |     |                     |
|-----|---------------------|
| 1.  | <u>  <b>A</b>  </u> |
| 2.  | <u>  <b>B</b>  </u> |
| 3.  | <u>  <b>C</b>  </u> |
| 4.  | <u>  <b>D</b>  </u> |
| 5.  | <u>  <b>D</b>  </u> |
| 6.  | <u>  <b>D</b>  </u> |
| 7.  | <u>  <b>D</b>  </u> |
| 8.  | <u>  <b>D</b>  </u> |
| 9.  | <u>  <b>C</b>  </u> |
| 10. | <u>  <b>A</b>  </u> |
| 11. | <u>  <b>B</b>  </u> |
| 12. | <u>  <b>D</b>  </u> |



Determine which choice best describes the rule the pattern is using.

**Answers**

- 1) 3 , 6 , 12 , 24  
 A. Add 7  
 B. Subtract 6  
 C. Multiply 9  
 D. Multiply 2

- 2) 52 , 45 , 38 , 31 , 24 , 17 , 10 , 3  
 A. Subtract 7  
 B. Add 3  
 C. Subtract 8  
 D. Multiply 8

- 3) 2 , 6 , 18 , 54  
 A. Add 3  
 B. Multiply 3  
 C. Subtract 7  
 D. Multiply 10

- 4) 7 , 15 , 23 , 31 , 39  
 A. Add 10  
 B. Subtract 4  
 C. Add 8  
 D. Multiply 5

- 5) 72 , 36 , 18 , 9  
 A. Divide 2  
 B. Add 3  
 C. Subtract 3  
 D. Multiply 5

- 6) 48 , 24 , 12 , 6  
 A. Divide 2  
 B. Add 9  
 C. Subtract 10  
 D. Multiply 6

- 7) 192 , 48 , 12 , 3  
 A. Add 7  
 B. Subtract 9  
 C. Multiply 9  
 D. Divide 4

- 8) 6 , 12 , 24 , 48 , 96  
 A. Add 9  
 B. Multiply 2  
 C. Subtract 3  
 D. Multiply 3

- 9) 37 , 28 , 19 , 10 , 1  
 A. Subtract 9  
 B. Add 3  
 C. Subtract 6  
 D. Multiply 6

- 10) 9 , 14 , 19 , 24 , 29  
 A. Add 3  
 B. Subtract 9  
 C. Multiply 4  
 D. Add 5

- 11) 7 , 14 , 28 , 56  
 A. Add 5  
 B. Subtract 5  
 C. Multiply 2  
 D. Multiply 7

- 12) 1 , 7 , 13 , 19 , 25 , 31  
 A. Add 6  
 B. Add 7  
 C. Subtract 4  
 D. Multiply 8

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 8. \_\_\_\_\_  
 9. \_\_\_\_\_  
 10. \_\_\_\_\_  
 11. \_\_\_\_\_  
 12. \_\_\_\_\_



Determine which choice best describes the rule the pattern is using.

**Answers**

- 1) 3 , 6 , 12 , 24  
 A. Add 7  
 B. Subtract 6  
 C. Multiply 9  
 D. Multiply 2

- 2) 52 , 45 , 38 , 31 , 24 , 17 , 10 , 3  
 A. Subtract 7  
 B. Add 3  
 C. Subtract 8  
 D. Multiply 8

- 3) 2 , 6 , 18 , 54  
 A. Add 3  
 B. Multiply 3  
 C. Subtract 7  
 D. Multiply 10

- 4) 7 , 15 , 23 , 31 , 39  
 A. Add 10  
 B. Subtract 4  
 C. Add 8  
 D. Multiply 5

- 5) 72 , 36 , 18 , 9  
 A. Divide 2  
 B. Add 3  
 C. Subtract 3  
 D. Multiply 5

- 6) 48 , 24 , 12 , 6  
 A. Divide 2  
 B. Add 9  
 C. Subtract 10  
 D. Multiply 6

- 7) 192 , 48 , 12 , 3  
 A. Add 7  
 B. Subtract 9  
 C. Multiply 9  
 D. Divide 4

- 8) 6 , 12 , 24 , 48 , 96  
 A. Add 9  
 B. Multiply 2  
 C. Subtract 3  
 D. Multiply 3

- 9) 37 , 28 , 19 , 10 , 1  
 A. Subtract 9  
 B. Add 3  
 C. Subtract 6  
 D. Multiply 6

- 10) 9 , 14 , 19 , 24 , 29  
 A. Add 3  
 B. Subtract 9  
 C. Multiply 4  
 D. Add 5

- 11) 7 , 14 , 28 , 56  
 A. Add 5  
 B. Subtract 5  
 C. Multiply 2  
 D. Multiply 7

- 12) 1 , 7 , 13 , 19 , 25 , 31  
 A. Add 6  
 B. Add 7  
 C. Subtract 4  
 D. Multiply 8

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



Determine which choice best describes the rule the pattern is using.

**Answers**

- 1) 2, 5, 8, 11, 14, 17, 20, 23  
 A. Add 2  
 B. Subtract 5  
 C. Add 3  
 D. Multiply 8

- 2) 39, 34, 29, 24, 19, 14, 9  
 A. Add 4  
 B. Subtract 2  
 C. Subtract 5  
 D. Multiply 4

- 3) 55, 47, 39, 31, 23, 15, 7  
 A. Add 2  
 B. Subtract 3  
 C. Multiply 5  
 D. Subtract 8

- 4) 7, 9, 11, 13, 15, 17, 19  
 A. Add 2  
 B. Add 8  
 C. Subtract 4  
 D. Multiply 9

- 5) 64, 32, 16, 8  
 A. Add 7  
 B. Subtract 7  
 C. Divide 2  
 D. Multiply 5

- 6) 2, 8, 32, 128, 512  
 A. Add 8  
 B. Subtract 6  
 C. Multiply 4  
 D. Multiply 6

- 7) 9, 11, 13, 15, 17, 19  
 A. Add 5  
 B. Subtract 3  
 C. Multiply 4  
 D. Add 2

- 8) 9, 36, 144, 576  
 A. Add 7  
 B. Subtract 5  
 C. Multiply 4  
 D. Multiply 5

- 9) 243, 81, 27, 9  
 A. Add 7  
 B. Divide 3  
 C. Subtract 10  
 D. Multiply 8

- 10) 25, 20, 15, 10, 5  
 A. Subtract 5  
 B. Add 10  
 C. Subtract 9  
 D. Multiply 6

- 11) 3, 15, 75, 375  
 A. Multiply 5  
 B. Add 8  
 C. Subtract 3  
 D. Multiply 7

- 12) 5, 9, 13, 17, 21  
 A. Add 7  
 B. Add 4  
 C. Subtract 5  
 D. Multiply 2

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 8. \_\_\_\_\_  
 9. \_\_\_\_\_  
 10. \_\_\_\_\_  
 11. \_\_\_\_\_  
 12. \_\_\_\_\_



Determine which choice best describes the rule the pattern is using.

**Answers**

- 1) 2, 5, 8, 11, 14, 17, 20, 23  
 A. Add 2  
 B. Subtract 5  
 C. Add 3  
 D. Multiply 8

- 2) 39, 34, 29, 24, 19, 14, 9  
 A. Add 4  
 B. Subtract 2  
 C. Subtract 5  
 D. Multiply 4

- 3) 55, 47, 39, 31, 23, 15, 7  
 A. Add 2  
 B. Subtract 3  
 C. Multiply 5  
 D. Subtract 8

- 4) 7, 9, 11, 13, 15, 17, 19  
 A. Add 2  
 B. Add 8  
 C. Subtract 4  
 D. Multiply 9

- 5) 64, 32, 16, 8  
 A. Add 7  
 B. Subtract 7  
 C. Divide 2  
 D. Multiply 5

- 6) 2, 8, 32, 128, 512  
 A. Add 8  
 B. Subtract 6  
 C. Multiply 4  
 D. Multiply 6

- 7) 9, 11, 13, 15, 17, 19  
 A. Add 5  
 B. Subtract 3  
 C. Multiply 4  
 D. Add 2

- 8) 9, 36, 144, 576  
 A. Add 7  
 B. Subtract 5  
 C. Multiply 4  
 D. Multiply 5

- 9) 243, 81, 27, 9  
 A. Add 7  
 B. Divide 3  
 C. Subtract 10  
 D. Multiply 8

- 10) 25, 20, 15, 10, 5  
 A. Subtract 5  
 B. Add 10  
 C. Subtract 9  
 D. Multiply 6

- 11) 3, 15, 75, 375  
 A. Multiply 5  
 B. Add 8  
 C. Subtract 3  
 D. Multiply 7

- 12) 5, 9, 13, 17, 21  
 A. Add 7  
 B. Add 4  
 C. Subtract 5  
 D. Multiply 2

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





Determine which choice best describes the rule the pattern is using.

**Answers**

- 1) 40 , 20 , 10 , 5  
 A. Add 9  
 B. Subtract 3  
 C. Divide 2  
 D. Multiply 4

- 2) 7 , 21 , 63 , 189 , 567  
 A. Add 8  
 B. Subtract 5  
 C. Multiply 3  
 D. Multiply 2

- 3) 6 , 18 , 54 , 162 , 486  
 A. Multiply 3  
 B. Add 4  
 C. Subtract 5  
 D. Multiply 5

- 4) 10 , 12 , 14 , 16 , 18 , 20 , 22 , 24  
 A. Add 5  
 B. Subtract 3  
 C. Multiply 7  
 D. Add 2

- 5) 7 , 13 , 19 , 25 , 31  
 A. Add 4  
 B. Subtract 3  
 C. Add 6  
 D. Multiply 8

- 6) 4 , 6 , 8 , 10 , 12 , 14  
 A. Add 5  
 B. Subtract 7  
 C. Multiply 5  
 D. Add 2

- 7) 20 , 18 , 16 , 14 , 12 , 10  
 A. Add 6  
 B. Subtract 2  
 C. Subtract 4  
 D. Multiply 2

- 8) 729 , 243 , 81 , 27 , 9  
 A. Divide 3  
 B. Add 9  
 C. Subtract 6  
 D. Multiply 6

- 9) 3 , 8 , 13 , 18 , 23  
 A. Add 8  
 B. Subtract 10  
 C. Add 5  
 D. Multiply 4

- 10) 2 , 6 , 18 , 54 , 162  
 A. Multiply 3  
 B. Add 4  
 C. Subtract 4  
 D. Multiply 3

- 11) 216 , 72 , 24 , 8  
 A. Add 10  
 B. Subtract 3  
 C. Multiply 8  
 D. Divide 3

- 12) 56 , 46 , 36 , 26 , 16 , 6  
 A. Add 10  
 B. Subtract 9  
 C. Subtract 10  
 D. Multiply 5

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 9. \_\_\_\_\_  
 10. \_\_\_\_\_  
 11. \_\_\_\_\_  
 12. \_\_\_\_\_



Determine which choice best describes the rule the pattern is using.

**Answers**

- 1) 40 , 20 , 10 , 5  
 A. Add 9  
 B. Subtract 3  
 C. Divide 2  
 D. Multiply 4

- 2) 7 , 21 , 63 , 189 , 567  
 A. Add 8  
 B. Subtract 5  
 C. Multiply 3  
 D. Multiply 2

- 3) 6 , 18 , 54 , 162 , 486  
 A. Multiply 3  
 B. Add 4  
 C. Subtract 5  
 D. Multiply 5

- 4) 10 , 12 , 14 , 16 , 18 , 20 , 22 , 24  
 A. Add 5  
 B. Subtract 3  
 C. Multiply 7  
 D. Add 2

- 5) 7 , 13 , 19 , 25 , 31  
 A. Add 4  
 B. Subtract 3  
 C. Add 6  
 D. Multiply 8

- 6) 4 , 6 , 8 , 10 , 12 , 14  
 A. Add 5  
 B. Subtract 7  
 C. Multiply 5  
 D. Add 2

- 7) 20 , 18 , 16 , 14 , 12 , 10  
 A. Add 6  
 B. Subtract 2  
 C. Subtract 4  
 D. Multiply 2

- 8) 729 , 243 , 81 , 27 , 9  
 A. Divide 3  
 B. Add 9  
 C. Subtract 6  
 D. Multiply 6

- 9) 3 , 8 , 13 , 18 , 23  
 A. Add 8  
 B. Subtract 10  
 C. Add 5  
 D. Multiply 4

- 10) 2 , 6 , 18 , 54 , 162  
 A. Multiply 3  
 B. Add 4  
 C. Subtract 4  
 D. Multiply 3

- 11) 216 , 72 , 24 , 8  
 A. Add 10  
 B. Subtract 3  
 C. Multiply 8  
 D. Divide 3

- 12) 56 , 46 , 36 , 26 , 16 , 6  
 A. Add 10  
 B. Subtract 9  
 C. Subtract 10  
 D. Multiply 5

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



Determine which choice best describes the rule the pattern is using.

**Answers**

- 1) 37 , 31 , 25 , 19 , 13 , 7  
 A. Add 4  
 B. Subtract 6  
 C. Subtract 3  
 D. Multiply 4

- 2) 72 , 36 , 18 , 9  
 A. Add 5  
 B. Divide 2  
 C. Subtract 5  
 D. Multiply 2

- 3) 192 , 48 , 12 , 3  
 A. Add 8  
 B. Divide 4  
 C. Subtract 3  
 D. Multiply 5

- 4) 18 , 16 , 14 , 12 , 10 , 8 , 6  
 A. Subtract 2  
 B. Add 9  
 C. Subtract 8  
 D. Multiply 7

- 5) 54 , 18 , 6 , 2  
 A. Add 6  
 B. Subtract 8  
 C. Divide 3  
 D. Multiply 10

- 6) 8 , 40 , 200 , 1000 , 5000  
 A. Add 5  
 B. Multiply 5  
 C. Subtract 3  
 D. Multiply 4

- 7) 48 , 41 , 34 , 27 , 20 , 13 , 6  
 A. Add 8  
 B. Subtract 7  
 C. Subtract 8  
 D. Multiply 2

- 8) 5 , 15 , 25 , 35 , 45 , 55 , 65  
 A. Add 8  
 B. Subtract 8  
 C. Add 10  
 D. Multiply 3

- 9) 7 , 35 , 175 , 875  
 A. Multiply 5  
 B. Add 7  
 C. Subtract 4  
 D. Multiply 7

- 10) 6 , 13 , 20 , 27 , 34 , 41 , 48 , 55  
 A. Add 2  
 B. Subtract 10  
 C. Multiply 9  
 D. Add 7

- 11) 729 , 243 , 81 , 27 , 9  
 A. Divide 3  
 B. Add 8  
 C. Subtract 6  
 D. Multiply 2

- 12) 7 , 35 , 175 , 875 , 4375  
 A. Add 5  
 B. Multiply 5  
 C. Subtract 3  
 D. Multiply 9

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 9. \_\_\_\_\_  
 10. \_\_\_\_\_  
 11. \_\_\_\_\_  
 12. \_\_\_\_\_



Determine which choice best describes the rule the pattern is using.

**Answers**

- 1) 37 , 31 , 25 , 19 , 13 , 7  
 A. Add 4  
 B. Subtract 6  
 C. Subtract 3  
 D. Multiply 4

- 2) 72 , 36 , 18 , 9  
 A. Add 5  
 B. Divide 2  
 C. Subtract 5  
 D. Multiply 2

- 3) 192 , 48 , 12 , 3  
 A. Add 8  
 B. Divide 4  
 C. Subtract 3  
 D. Multiply 5

- 4) 18 , 16 , 14 , 12 , 10 , 8 , 6  
 A. Subtract 2  
 B. Add 9  
 C. Subtract 8  
 D. Multiply 7

- 5) 54 , 18 , 6 , 2  
 A. Add 6  
 B. Subtract 8  
 C. Divide 3  
 D. Multiply 10

- 6) 8 , 40 , 200 , 1000 , 5000  
 A. Add 5  
 B. Multiply 5  
 C. Subtract 3  
 D. Multiply 4

- 7) 48 , 41 , 34 , 27 , 20 , 13 , 6  
 A. Add 8  
 B. Subtract 7  
 C. Subtract 8  
 D. Multiply 2

- 8) 5 , 15 , 25 , 35 , 45 , 55 , 65  
 A. Add 8  
 B. Subtract 8  
 C. Add 10  
 D. Multiply 3

- 9) 7 , 35 , 175 , 875  
 A. Multiply 5  
 B. Add 7  
 C. Subtract 4  
 D. Multiply 7

- 10) 6 , 13 , 20 , 27 , 34 , 41 , 48 , 55  
 A. Add 2  
 B. Subtract 10  
 C. Multiply 9  
 D. Add 7

- 11) 729 , 243 , 81 , 27 , 9  
 A. Divide 3  
 B. Add 8  
 C. Subtract 6  
 D. Multiply 2

- 12) 7 , 35 , 175 , 875 , 4375  
 A. Add 5  
 B. Multiply 5  
 C. Subtract 3  
 D. Multiply 9

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



Determine which choice best describes the rule the pattern is using.

**Answers**

- 1) 8 , 16 , 32 , 64 , 128  
 A. Add 3  
 B. Subtract 3  
 C. Multiply 8  
 D. Multiply 2

- 2) 9 , 17 , 25 , 33 , 41 , 49  
 A. Add 4  
 B. Subtract 3  
 C. Multiply 9  
 D. Add 8

- 3) 135 , 45 , 15 , 5  
 A. Add 10  
 B. Divide 3  
 C. Subtract 10  
 D. Multiply 9

- 4) 5 , 20 , 80 , 320 , 1280  
 A. Add 8  
 B. Multiply 4  
 C. Subtract 5  
 D. Multiply 2

- 5) 3 , 6 , 12 , 24  
 A. Multiply 2  
 B. Add 4  
 C. Subtract 9  
 D. Multiply 6

- 6) 75 , 65 , 55 , 45 , 35 , 25 , 15 , 5  
 A. Add 4  
 B. Subtract 5  
 C. Multiply 9  
 D. Subtract 10

- 7) 1 , 9 , 17 , 25 , 33  
 A. Add 8  
 B. Add 10  
 C. Subtract 10  
 D. Multiply 7

- 8) 6 , 12 , 24 , 48  
 A. Add 2  
 B. Subtract 9  
 C. Multiply 2  
 D. Multiply 6

- 9) 2 , 11 , 20 , 29 , 38  
 A. Add 4  
 B. Subtract 2  
 C. Add 9  
 D. Multiply 5

- 10) 55 , 46 , 37 , 28 , 19 , 10 , 1  
 A. Add 10  
 B. Subtract 9  
 C. Subtract 8  
 D. Multiply 2

- 11) 25 , 21 , 17 , 13 , 9 , 5  
 A. Subtract 4  
 B. Add 7  
 C. Subtract 4  
 D. Multiply 2

- 12) 405 , 135 , 45 , 15 , 5  
 A. Add 9  
 B. Divide 3  
 C. Subtract 10  
 D. Multiply 10

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



Determine which choice best describes the rule the pattern is using.

**Answers**

1) 8 , 16 , 32 , 64 , 128

- A. Add 3
- B. Subtract 3
- C. Multiply 8
- D. Multiply 2

2) 9 , 17 , 25 , 33 , 41 , 49

- A. Add 4
- B. Subtract 3
- C. Multiply 9
- D. Add 8

1.     **D**    

3) 135 , 45 , 15 , 5

- A. Add 10
- B. Divide 3
- C. Subtract 10
- D. Multiply 9

4) 5 , 20 , 80 , 320 , 1280

- A. Add 8
- B. Multiply 4
- C. Subtract 5
- D. Multiply 2

2.     **D**    

3.     **B**    

4.     **B**    

5.     **A**    

6.     **D**    

5) 3 , 6 , 12 , 24

- A. Multiply 2
- B. Add 4
- C. Subtract 9
- D. Multiply 6

6) 75 , 65 , 55 , 45 , 35 , 25 , 15 , 5

- A. Add 4
- B. Subtract 5
- C. Multiply 9
- D. Subtract 10

7.     **A**    

8.     **C**    

9.     **C**    

10.     **B**    

7) 1 , 9 , 17 , 25 , 33

- A. Add 8
- B. Add 10
- C. Subtract 10
- D. Multiply 7

8) 6 , 12 , 24 , 48

- A. Add 2
- B. Subtract 9
- C. Multiply 2
- D. Multiply 6

11.     **A**    

12.     **B**    

9) 2 , 11 , 20 , 29 , 38

- A. Add 4
- B. Subtract 2
- C. Add 9
- D. Multiply 5

10) 55 , 46 , 37 , 28 , 19 , 10 , 1

- A. Add 10
- B. Subtract 9
- C. Subtract 8
- D. Multiply 2

11) 25 , 21 , 17 , 13 , 9 , 5

- A. Subtract 4
- B. Add 7
- C. Subtract 4
- D. Multiply 2

12) 405 , 135 , 45 , 15 , 5

- A. Add 9
- B. Divide 3
- C. Subtract 10
- D. Multiply 10



Determine which choice best describes the rule the pattern is using.

**Answers**

- 1) 2 , 12 , 22 , 32 , 42 , 52 , 62  
 A. Add 10  
 B. Add 7  
 C. Subtract 5  
 D. Multiply 8

- 2) 19 , 15 , 11 , 7 , 3  
 A. Add 8  
 B. Subtract 4  
 C. Subtract 4  
 D. Multiply 4

- 3) 47 , 40 , 33 , 26 , 19 , 12 , 5  
 A. Subtract 7  
 B. Add 3  
 C. Subtract 3  
 D. Multiply 10

- 4) 51 , 44 , 37 , 30 , 23 , 16 , 9  
 A. Add 10  
 B. Subtract 3  
 C. Multiply 6  
 D. Subtract 7

- 5) 24 , 20 , 16 , 12 , 8  
 A. Subtract 4  
 B. Add 5  
 C. Subtract 9  
 D. Multiply 6

- 6) 2 , 11 , 20 , 29 , 38  
 A. Add 9  
 B. Add 8  
 C. Subtract 7  
 D. Multiply 3

- 7) 162 , 54 , 18 , 6  
 A. Add 8  
 B. Subtract 2  
 C. Divide 3  
 D. Multiply 4

- 8) 2 , 10 , 50 , 250 , 1250  
 A. Add 2  
 B. Subtract 5  
 C. Multiply 6  
 D. Multiply 5

- 9) 9 , 36 , 144 , 576  
 A. Add 4  
 B. Multiply 4  
 C. Subtract 9  
 D. Multiply 2

- 10) 10 , 14 , 18 , 22 , 26 , 30  
 A. Add 4  
 B. Add 2  
 C. Subtract 2  
 D. Multiply 8

- 11) 64 , 32 , 16 , 8 , 4  
 A. Add 8  
 B. Divide 2  
 C. Subtract 5  
 D. Multiply 3

- 12) 2 , 4 , 8 , 16 , 32  
 A. Add 2  
 B. Subtract 9  
 C. Multiply 2  
 D. Multiply 7

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



Determine which choice best describes the rule the pattern is using.

**Answers**

- 1) 2 , 12 , 22 , 32 , 42 , 52 , 62  
 A. Add 10  
 B. Add 7  
 C. Subtract 5  
 D. Multiply 8

- 2) 19 , 15 , 11 , 7 , 3  
 A. Add 8  
 B. Subtract 4  
 C. Subtract 4  
 D. Multiply 4

- 3) 47 , 40 , 33 , 26 , 19 , 12 , 5  
 A. Subtract 7  
 B. Add 3  
 C. Subtract 3  
 D. Multiply 10

- 4) 51 , 44 , 37 , 30 , 23 , 16 , 9  
 A. Add 10  
 B. Subtract 3  
 C. Multiply 6  
 D. Subtract 7

- 5) 24 , 20 , 16 , 12 , 8  
 A. Subtract 4  
 B. Add 5  
 C. Subtract 9  
 D. Multiply 6

- 6) 2 , 11 , 20 , 29 , 38  
 A. Add 9  
 B. Add 8  
 C. Subtract 7  
 D. Multiply 3

- 7) 162 , 54 , 18 , 6  
 A. Add 8  
 B. Subtract 2  
 C. Divide 3  
 D. Multiply 4

- 8) 2 , 10 , 50 , 250 , 1250  
 A. Add 2  
 B. Subtract 5  
 C. Multiply 6  
 D. Multiply 5

- 9) 9 , 36 , 144 , 576  
 A. Add 4  
 B. Multiply 4  
 C. Subtract 9  
 D. Multiply 2

- 10) 10 , 14 , 18 , 22 , 26 , 30  
 A. Add 4  
 B. Add 2  
 C. Subtract 2  
 D. Multiply 8

- 11) 64 , 32 , 16 , 8 , 4  
 A. Add 8  
 B. Divide 2  
 C. Subtract 5  
 D. Multiply 3

- 12) 2 , 4 , 8 , 16 , 32  
 A. Add 2  
 B. Subtract 9  
 C. Multiply 2  
 D. Multiply 7

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





Determine which choice best describes the rule the pattern is using.

**Answers**

- 1) 18, 16, 14, 12, 10, 8, 6, 4  
 A. Add 3  
 B. Subtract 2  
 C. Subtract 2  
 D. Multiply 7

- 2) 162, 54, 18, 6  
 A. Add 9  
 B. Divide 3  
 C. Subtract 3  
 D. Multiply 4

- 3) 108, 36, 12, 4  
 A. Add 2  
 B. Subtract 3  
 C. Multiply 6  
 D. Divide 3

- 4) 2304, 576, 144, 36, 9  
 A. Add 3  
 B. Divide 4  
 C. Subtract 5  
 D. Multiply 7

- 5) 1, 5, 9, 13, 17, 21  
 A. Add 3  
 B. Subtract 2  
 C. Add 4  
 D. Multiply 2

- 6) 8, 18, 28, 38, 48, 58  
 A. Add 10  
 B. Add 9  
 C. Subtract 4  
 D. Multiply 8

- 7) 1280, 320, 80, 20, 5  
 A. Add 9  
 B. Subtract 2  
 C. Multiply 3  
 D. Divide 4

- 8) 62, 52, 42, 32, 22, 12, 2  
 A. Add 5  
 B. Subtract 8  
 C. Multiply 2  
 D. Subtract 10

- 9) 5, 15, 45, 135, 405  
 A. Multiply 3  
 B. Add 10  
 C. Subtract 2  
 D. Multiply 10

- 10) 41, 35, 29, 23, 17, 11, 5  
 A. Subtract 6  
 B. Add 5  
 C. Subtract 4  
 D. Multiply 6

- 11) 10, 15, 20, 25, 30, 35, 40  
 A. Add 9  
 B. Add 5  
 C. Subtract 2  
 D. Multiply 6

- 12) 39, 30, 21, 12, 3  
 A. Subtract 9  
 B. Add 8  
 C. Subtract 4  
 D. Multiply 2

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



Determine which choice best describes the rule the pattern is using.

**Answers**

- 1) 18 , 16 , 14 , 12 , 10 , 8 , 6 , 4  
 A. Add 3  
 B. Subtract 2  
 C. Subtract 2  
 D. Multiply 7

- 2) 162 , 54 , 18 , 6  
 A. Add 9  
 B. Divide 3  
 C. Subtract 3  
 D. Multiply 4

- 3) 108 , 36 , 12 , 4  
 A. Add 2  
 B. Subtract 3  
 C. Multiply 6  
 D. Divide 3

- 4) 2304 , 576 , 144 , 36 , 9  
 A. Add 3  
 B. Divide 4  
 C. Subtract 5  
 D. Multiply 7

- 5) 1 , 5 , 9 , 13 , 17 , 21  
 A. Add 3  
 B. Subtract 2  
 C. Add 4  
 D. Multiply 2

- 6) 8 , 18 , 28 , 38 , 48 , 58  
 A. Add 10  
 B. Add 9  
 C. Subtract 4  
 D. Multiply 8

- 7) 1280 , 320 , 80 , 20 , 5  
 A. Add 9  
 B. Subtract 2  
 C. Multiply 3  
 D. Divide 4

- 8) 62 , 52 , 42 , 32 , 22 , 12 , 2  
 A. Add 5  
 B. Subtract 8  
 C. Multiply 2  
 D. Subtract 10

- 9) 5 , 15 , 45 , 135 , 405  
 A. Multiply 3  
 B. Add 10  
 C. Subtract 2  
 D. Multiply 10

- 10) 41 , 35 , 29 , 23 , 17 , 11 , 5  
 A. Subtract 6  
 B. Add 5  
 C. Subtract 4  
 D. Multiply 6

- 11) 10 , 15 , 20 , 25 , 30 , 35 , 40  
 A. Add 9  
 B. Add 5  
 C. Subtract 2  
 D. Multiply 6

- 12) 39 , 30 , 21 , 12 , 3  
 A. Subtract 9  
 B. Add 8  
 C. Subtract 4  
 D. Multiply 2

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



Determine which choice best describes the rule the pattern is using.

**Answers**

- 1) 45 , 36 , 27 , 18 , 9  
 A. Add 7  
 B. Subtract 5  
 C. Multiply 4  
 D. Subtract 9

- 2) 4 , 9 , 14 , 19 , 24 , 29 , 34 , 39  
 A. Add 5  
 B. Add 7  
 C. Subtract 8  
 D. Multiply 3

- 3) 7 , 9 , 11 , 13 , 15 , 17  
 A. Add 3  
 B. Subtract 8  
 C. Multiply 3  
 D. Add 2

- 4) 8 , 24 , 72 , 216  
 A. Add 7  
 B. Subtract 2  
 C. Multiply 8  
 D. Multiply 3

- 5) 71 , 61 , 51 , 41 , 31 , 21 , 11 , 1  
 A. Subtract 10  
 B. Add 10  
 C. Subtract 4  
 D. Multiply 4

- 6) 6 , 18 , 54 , 162  
 A. Add 4  
 B. Multiply 3  
 C. Subtract 2  
 D. Multiply 8

- 7) 4 , 13 , 22 , 31 , 40 , 49  
 A. Add 7  
 B. Add 9  
 C. Subtract 7  
 D. Multiply 9

- 8) 9 , 45 , 225 , 1125  
 A. Add 10  
 B. Subtract 5  
 C. Multiply 5  
 D. Multiply 8

- 9) 512 , 128 , 32 , 8  
 A. Add 6  
 B. Divide 4  
 C. Subtract 3  
 D. Multiply 8

- 10) 96 , 48 , 24 , 12 , 6  
 A. Add 5  
 B. Subtract 4  
 C. Multiply 5  
 D. Divide 2

- 11) 54 , 18 , 6 , 2  
 A. Add 8  
 B. Subtract 7  
 C. Divide 3  
 D. Multiply 5

- 12) 52 , 44 , 36 , 28 , 20 , 12 , 4  
 A. Subtract 8  
 B. Add 5  
 C. Subtract 9  
 D. Multiply 5

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



Determine which choice best describes the rule the pattern is using.

**Answers**

- |   |   |
|---|---|
| <p>1) 45 , 36 , 27 , 18 , 9<br/>A. Add 7<br/>B. Subtract 5<br/>C. Multiply 4<br/>D. Subtract 9</p>                  | <p>2) 4 , 9 , 14 , 19 , 24 , 29 , 34 , 39<br/>A. Add 5<br/>B. Add 7<br/>C. Subtract 8<br/>D. Multiply 3</p>   |
| <p>3) 7 , 9 , 11 , 13 , 15 , 17<br/>A. Add 3<br/>B. Subtract 8<br/>C. Multiply 3<br/>D. Add 2</p>                   | <p>4) 8 , 24 , 72 , 216<br/>A. Add 7<br/>B. Subtract 2<br/>C. Multiply 8<br/>D. Multiply 3</p>                |
| <p>5) 71 , 61 , 51 , 41 , 31 , 21 , 11 , 1<br/>A. Subtract 10<br/>B. Add 10<br/>C. Subtract 4<br/>D. Multiply 4</p> | <p>6) 6 , 18 , 54 , 162<br/>A. Add 4<br/>B. Multiply 3<br/>C. Subtract 2<br/>D. Multiply 8</p>                |
| <p>7) 4 , 13 , 22 , 31 , 40 , 49<br/>A. Add 7<br/>B. Add 9<br/>C. Subtract 7<br/>D. Multiply 9</p>                  | <p>8) 9 , 45 , 225 , 1125<br/>A. Add 10<br/>B. Subtract 5<br/>C. Multiply 5<br/>D. Multiply 8</p>             |
| <p>9) 512 , 128 , 32 , 8<br/>A. Add 6<br/>B. Divide 4<br/>C. Subtract 3<br/>D. Multiply 8</p>                       | <p>10) 96 , 48 , 24 , 12 , 6<br/>A. Add 5<br/>B. Subtract 4<br/>C. Multiply 5<br/>D. Divide 2</p>             |
| <p>11) 54 , 18 , 6 , 2<br/>A. Add 8<br/>B. Subtract 7<br/>C. Divide 3<br/>D. Multiply 5</p>                         | <p>12) 52 , 44 , 36 , 28 , 20 , 12 , 4<br/>A. Subtract 8<br/>B. Add 5<br/>C. Subtract 9<br/>D. Multiply 5</p> |

- |     |          |
|-----|----------|
| 1.  | <b>D</b> |
| 2.  | <b>A</b> |
| 3.  | <b>D</b> |
| 4.  | <b>D</b> |
| 5.  | <b>A</b> |
| 6.  | <b>B</b> |
| 7.  | <b>B</b> |
| 8.  | <b>C</b> |
| 9.  | <b>B</b> |
| 10. | <b>D</b> |
| 11. | <b>C</b> |
| 12. | <b>A</b> |