



Use the patterns to answer the questions.

1)      A      

|   |   |    |    |    |
|---|---|----|----|----|
| 5 | 8 | 11 | 14 | 17 |
| 3 | 6 | 9  | 12 | 15 |

          B      

|   |   |    |    |    |
|---|---|----|----|----|
| 5 | 8 | 11 | 14 | 17 |
| 3 | 6 | 9  | 12 | 15 |

The patterns above are synchronized. If the number in pattern A is 85, what will be the number in pattern B?

2)      A      

|   |    |    |    |    |
|---|----|----|----|----|
| 2 | 3  | 4  | 5  | 6  |
| 8 | 12 | 16 | 20 | 24 |

          B      

|   |    |    |    |    |
|---|----|----|----|----|
| 2 | 3  | 4  | 5  | 6  |
| 8 | 12 | 16 | 20 | 24 |

The patterns above are synchronized. If the number in pattern A is 19, what will be the number in pattern B?

3) In a pattern the first number is a 5. The second number is a 10. The third is a 15. Fourth is a 20. If the pattern continues will the 22nd number end in a 5 or a 0?

4) In a pattern the first number is a 9. The second number is a 18. The third is a 27. Fourth is a 36. If the pattern continues what will be the 24th number in the pattern?

5) A pattern starts with 9. The second number is a 13. The third is a 17. Fourth is a 21 and fifth is 25. If you double the 24th number in the pattern, will the result be even or odd?

6) A pattern starts with 4. The second number is a 8. The third is a 12. Fourth is a 16 and fifth is 20. If the pattern continues will the 12th number in the pattern be even or odd?

**Answers**

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

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

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

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

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

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



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|   |   |    |    |    |
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          B      

|   |   |    |    |    |
|---|---|----|----|----|
| 5 | 8 | 11 | 14 | 17 |
| 3 | 6 | 9  | 12 | 15 |

The patterns above are synchronized. If the number in pattern A is 85, what will be the number in pattern B?

2)      A      

|   |    |    |    |    |
|---|----|----|----|----|
| 2 | 3  | 4  | 5  | 6  |
| 8 | 12 | 16 | 20 | 24 |

          B      

|   |    |    |    |    |
|---|----|----|----|----|
| 2 | 3  | 4  | 5  | 6  |
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Answers

1. 83

2. 76

3. 0

4. 216

5. even

6. even