



Use the patterns to answer the questions.

1)      A      

7	9	11	13	15
4	6	8	10	12

          B      

7	9	11	13	15
4	6	8	10	12

The patterns above are synchronized. If the number in pattern A is 175, what will be the number in pattern B?

2)      A      

5	6	7	8	9
45	54	63	72	81

          B      

5	6	7	8	9
45	54	63	72	81

The patterns above are synchronized. If the number in pattern A is 23, 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 12th number end in a 5 or a 0?

4) In a pattern the first number is a 4. The second number is a 8. The third is a 12. Fourth is a 16. If the pattern continues what will be the 16th number in the pattern?

5) A pattern starts with 1. The second number is a 9. The third is a 17. Fourth is a 25 and fifth is 33. If you double the 20th number in the pattern, will the result be even or odd?

6) A pattern starts with 7. The second number is a 14. The third is a 21. Fourth is a 28 and fifth is 35. If the pattern continues will the 22nd number in the pattern be even or odd?

**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_



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**Answers**1. **172**2. **207**3. **0**4. **64**5. **even**6. **even**