



Use the patterns to answer the questions.

1)     Array A     

9	12	15	18	21
5	8	11	14	17

         Array B

The patterns above are synchronized. If the number in pattern A is 171, what will be the number in pattern B?

2)     Array A     

3	4	5	6	7
18	24	30	36	42

         Array B

The patterns above are synchronized. If the number in pattern A is 45, 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 17th number end in a 5 or a 0?

4) In a pattern the first number is a 6. The second number is a 12. The third is a 18. Fourth is a 24. If the pattern continues what will be the 22nd number in the pattern?

5) A pattern starts with 3. The second number is a 9. The third is a 15. Fourth is a 21 and fifth is 15th. If you double the VAR6 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 23rd number in the pattern be even or odd?

7) A pattern starts with 2. The second number is a 4. The third is a 6. Fourth is a 8 and fifth is 10. If the pattern continues will the 12th number in the pattern be even or odd?

8) A pattern starts with 2. The second number is a 4. The third is a 6. Fourth is a 8 and fifth is 10. If the pattern continues will the 23rd number in the pattern be even or odd?

9) A pattern starts with 8. The second number is a 16. The third is a 24. Fourth is a 32 and fifth is 40. If the pattern continues will the 12th number in the pattern be even or odd?

10) 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 20th number in the pattern be even or odd?

**Answers**

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



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**Answers**

1. 167
2. 90
3. 5
4. 132
5. even
6. even
7. even
8. even
9. even
10. even