Name:

Use the patterns to answer the questions.

1)

Input (A)	9	12	15	18	21
Output (B)	5	8	11	14	17

The patterns above are synchronized. If the number in pattern A is 162, what will be the number in pattern B?

1. _____

2. _____

2)

Input (A)	4	5	6	7	8
Output (B)	8	10	12	14	16

The patterns above are synchronized. If the number in pattern A is 22, what will be the number in pattern B?

3. _____

4. _____

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 15th number end in a 5 or a 0?

5. _____

6. _____

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 10th number in the pattern?

5) A pattern starts with 9. The second number is a 11. The third is a 13. Fourth is a 15 and fifth is 17. If you double the 14th number in the pattern, will the result be even or odd?

6) 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 16th number in the pattern be even or odd?

Math

Name: **Answer Key**

Use the patterns to answer the questions.

1)

Input (A)	9	12	15	18	21
Output (B)	5	8	11	14	17

The patterns above are synchronized. If the number in pattern A is 162, what will be the number in pattern B?

1. **158**

2. **44**

2)

Input (A)	4	5	6	7	8
Output (B)	8	10	12	14	16

The patterns above are synchronized. If the number in pattern A is 22, what will be the number in pattern B?

3. **5**

4. **90**

5. **even**

6. **even**

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 15th 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 10th number in the pattern?

5) A pattern starts with 9. The second number is a 11. The third is a 13. Fourth is a 15 and fifth is 17. If you double the 14th number in the pattern, will the result be even or odd?

6) 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 16th number in the pattern be even or odd?