Name:

**Use the patterns to answer the questions.**

**1)**

| A | 5 | 8 | 11 | 14 | 17 |
|---|---|---|----|----|----|
| B | 2 | 5 | 8 | 11 | 14 |

The patterns above are synchronized. If the number in pattern A is 110, what will be the number in pattern B?

1. _____

2. _____

3. _____

**2)**

| A | 3 | 4 | 5 | 6 | 7 |
|---|----|----|----|----|----|
| B | 12 | 16 | 20 | 24 | 28 |

The patterns above are synchronized. If the number in pattern A is 18, what will be the number in pattern B?

4. _____

5. _____

6. _____

**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 11th number end in a 5 or a 0?

**4)** In a pattern the first number is a 8. The second number is a 16. The third is a 24. Fourth is a 32. If the pattern continues what will be the 10th 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 17th number in the pattern, will the result be even or odd?

**6)** A pattern starts with 9. The second number is a 18. The third is a 27. Fourth is a 36 and fifth is 45. If the pattern continues will the 15th number in the pattern be even or odd?

**Use the patterns to answer the questions.**

**1)**

| A | 5 | 8 | 11 | 14 | 17 |
|---|---|---|----|----|----|
| B | 2 | 5 | 8 | 11 | 14 |

The patterns above are synchronized. If the number in pattern A is 110, what will be the number in pattern B?

**2)**

| A | 3 | 4 | 5 | 6 | 7 |
|---|----|----|----|----|----|
| B | 12 | 16 | 20 | 24 | 28 |

The patterns above are synchronized. If the number in pattern A is 18, 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 11th number end in a 5 or a 0?

**4)** In a pattern the first number is a 8. The second number is a 16. The third is a 24. Fourth is a 32. If the pattern continues what will be the 10th 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 17th number in the pattern, will the result be even or odd?

**6)** A pattern starts with 9. The second number is a 18. The third is a 27. Fourth is a 36 and fifth is 45. If the pattern continues will the 15th number in the pattern be even or odd?