Name:

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

**1)**

A

| 7 | 12 | 17 | 22 | 27 |
|---|----|----|----|----|

B

| 3 | 8 | 13 | 18 | 23 |
|---|---|----|----|----|

The patterns above are synchronized. If the number in pattern A is 175, 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 16, 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 14th number end in a 5 or a 0?

**4)** In a pattern the first number is a 2. The second number is a 4. The third is a 6. Fourth is a 8. If the pattern continues what will be the 11th number in the pattern?

**5)** A pattern starts with 3. The second number is a 13. The third is a 23. Fourth is a 33 and fifth is 43. If you double the 18th 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 21st number in the pattern be even or odd?
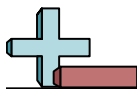
Name:

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

**1)**

| A | 7 | 12 | 17 | 22 | 27 |
|---|---|----|----|----|----|
| B | 3 | 8  | 13 | 18 | 23 |

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

1. _____ **171**

**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 16, what will be the number in pattern B?

2. _____ **64**

3. _____ **0**

4. _____ **22**

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 14th number end in a 5 or a 0?

**4)** In a pattern the first number is a 2. The second number is a 4. The third is a 6. Fourth is a 8. If the pattern continues what will be the 11th number in the pattern?

**5)** A pattern starts with 3. The second number is a 13. The third is a 23. Fourth is a 33 and fifth is 43. If you double the 18th 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 21st number in the pattern be even or odd?