



Use the patterns to answer the questions.

**Answers**

1)

|                       |   |   |   |    |    |
|-----------------------|---|---|---|----|----|
| <b>Input<br/>(A)</b>  | 5 | 7 | 9 | 11 | 13 |
| <b>Output<br/>(B)</b> | 2 | 4 | 6 | 8  | 10 |

The patterns above are synchronized. If the number in pattern A is 65, what will be the number in pattern B?

2)

|                       |    |    |    |    |    |
|-----------------------|----|----|----|----|----|
| <b>Input<br/>(A)</b>  | 4  | 5  | 6  | 7  | 8  |
| <b>Output<br/>(B)</b> | 24 | 30 | 36 | 42 | 48 |

The patterns above are synchronized. If the number in pattern A is 15, 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 2. The second number is a 4. The third is a 6. Fourth is a 8. If the pattern continues what will be the 19th number in the pattern?

- 5) A pattern starts with 9. The second number is a 15. The third is a 21. Fourth is a 27 and fifth is 33. If you double the 22nd number in the pattern, will the result be even or odd?

- 6) A pattern starts with 5. The second number is a 10. The third is a 15. Fourth is a 20 and fifth is 25. If the pattern continues will the 22nd number in the pattern be even or odd?

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_



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**Answers**1. **62**2. **90**3. **0**4. **38**5. **even**6. **even**