



Use the patterns to answer the questions.

|    |         |    |    |    |    |    |
|----|---------|----|----|----|----|----|
| 1) | Array A | 10 | 15 | 20 | 25 | 30 |
|    | Array B | 6  | 11 | 16 | 21 | 26 |

The patterns above are synchronized. If the number in pattern A is 150, what will be the number in pattern B?

|    |         |    |    |    |    |    |
|----|---------|----|----|----|----|----|
| 2) | Array A | 4  | 5  | 6  | 7  | 8  |
|    | Array B | 28 | 35 | 42 | 49 | 56 |

The patterns above are synchronized. If the number in pattern A is 76, 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 22nd number end in a 5 or a 0?
- 4) In a pattern the first number is a 10. The second number is a 20. The third is a 30. Fourth is a 40. If the pattern continues what will be the 12th number in the pattern?
- 5) A pattern starts with 7. The second number is a 13. The third is a 19. Fourth is a 25 and fifth is 22nd. If you double the VAR6 number in the pattern, will the result be even or odd?
- 6) A pattern starts with 3. The second number is a 6. The third is a 9. Fourth is a 12 and fifth is 15. If the pattern continues will the 15th number in the pattern be even or odd?
- 7) 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 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 21st number in the pattern be even or odd?
- 9) A pattern starts with 6. The second number is a 12. The third is a 18. Fourth is a 24 and fifth is 30. If the pattern continues will the 20th number in the pattern be even or odd?
- 10) A pattern starts with 6. The second number is a 12. The third is a 18. Fourth is a 24 and fifth is 30. If the pattern continues will the 14th number in the pattern be even or odd?

**Answers**

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



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- 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 21st number in the pattern be even or odd?

- 9) A pattern starts with 6. The second number is a 12. The third is a 18. Fourth is a 24 and fifth is 30. If the pattern continues will the 20th number in the pattern be even or odd?

- 10) A pattern starts with 6. The second number is a 12. The third is a 18. Fourth is a 24 and fifth is 30. If the pattern continues will the 14th number in the pattern be even or odd?

**Answers**

1. **146**
2. **133**
3. **0**
4. **120**
5. **even**
6. **odd**
7. **even**
8. **even**
9. **even**
10. **even**