Square and cube patterns

Find the rule, then write the next two numbers.

Name: _____

Score: _____ / 10

1. 10, 15, 21, 28, _____, _____

2. 1, 8, 27, 64, _____, _____

3. 25, 36, 49, 64, _____, _____

4. 1, 3, 6, 10, _____, _____

5. 17, 26, 37, 50, _____, _____

6. 5, 10, 17, 26, _____, _____

7. 16, 25, 36, 49, _____, _____

8. 4, 9, 16, 25, _____, _____

9. 26, 37, 50, 65, _____, _____

10. 3, 6, 10, 15, _____, _____

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Answer key: Square and cube patterns

1. 10, 15, 21, 28, 36, 45 (triangle numbers: add 1 more each time)
2. 1, 8, 27, 64, 125, 216 (cube numbers: 1 × 1 × 1, 2 × 2 × 2...)
3. 25, 36, 49, 64, 81, 100 (square numbers: 1 × 1, 2 × 2, 3 × 3...)
4. 1, 3, 6, 10, 15, 21 (triangle numbers: add 1 more each time)
5. 17, 26, 37, 50, 65, 82 (square numbers plus 1)
6. 5, 10, 17, 26, 37, 50 (square numbers plus 1)
7. 16, 25, 36, 49, 64, 81 (square numbers: 1 × 1, 2 × 2, 3 × 3...)
8. 4, 9, 16, 25, 36, 49 (square numbers: 1 × 1, 2 × 2, 3 × 3...)
9. 26, 37, 50, 65, 82, 101 (square numbers plus 1)
10. 3, 6, 10, 15, 21, 28 (triangle numbers: add 1 more each time)