Square and cube patterns

Find the rule, then write the next two numbers.

Name: _____

Score: _____ / 10

1. 4, 9, 16, 25, _____, _____

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

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

4. 15, 21, 28, 36, _____, _____

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

6. 9, 16, 25, 36, _____, _____

7. 1, 3, 6, 10, _____, _____

8. 17, 26, 37, 50, _____, _____

9. 10, 15, 21, 28, _____, _____

10. 6, 10, 15, 21, _____, _____

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Answer key: Square and cube patterns

1. 4, 9, 16, 25, 36, 49 (square numbers: 1 × 1, 2 × 2, 3 × 3...)

2. 1, 8, 27, 64, 125, 216 (cube numbers: 1 × 1 × 1, 2 × 2 × 2...)

3. 3, 6, 10, 15, 21, 28 (triangle numbers: add 1 more each time)

4. 15, 21, 28, 36, 45, 55 (triangle numbers: add 1 more each time)

5. 5, 10, 17, 26, 37, 50 (square numbers plus 1)

6. 9, 16, 25, 36, 49, 64 (square numbers: 1 × 1, 2 × 2, 3 × 3...)

7. 1, 3, 6, 10, 15, 21 (triangle numbers: add 1 more each time)

8. 17, 26, 37, 50, 65, 82 (square numbers plus 1)

9. 10, 15, 21, 28, 36, 45 (triangle numbers: add 1 more each time)

10. 6, 10, 15, 21, 28, 36 (triangle numbers: add 1 more each time)

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