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SEQUENCES AND SERIES WORKSHEETS

1. What is the common difference of this arithmetic series $5, 11, 17, 23, 29, \dots$?
2. Find the 23rd term of the series $45, 48, 51, 54, 57, \dots$
3. The 5th and the 8th term of an arithmetic series is 35, and 47 respectively. Find the common difference.



4. The common difference of the series is 6, and the third term of the arithmetic series is 23. Find the first five terms of the series.
5. Find the next four terms of the series, $11, 14, 17, 20, 23, \dots$
6. The sum of the first 15 terms of the series $8, 11 \frac{1}{2}, 15, 18 \frac{1}{2}, 22, 25 \frac{1}{2}, \dots$ is _____.
7. In an arithmetic series the 7th term is 58 and the first term is 10. Find the first three terms of the series.
8. The sum of the n terms $29, 36, 43, \dots$ is equal to 704. Find the value of n .

9. The difference between the 12th and 15th terms of an arithmetic series is 24. Find the common difference of the series.
10. What is the 12th term of the series 2, 4, 8, 16, 32, 64, 128.....?



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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	6
2)	111
3)	4
4)	5, 11, 17, 23, 29
5)	26, 29, 32, 35
6)	487.5

7)	10, 18, 26
8)	11 terms
9)	8
10)	4096