

EXTENDING SEQUENCES GIVEN A TERM AND COMMON DIFFERENCE

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

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| 1. An ascending sequence has a common difference of 3, and a 1st term of 5. Write out the first 5 terms. | 2. An ascending sequence has a common difference of 2, and a 2nd term of 7. Write out the first 5 terms. |
| 3. A descending sequence has a common difference of 4, and a 1st term of 20. Write out the first 5 terms. | 4. An ascending sequence has a common difference of 5, and a 3rd term of 15. Write out the first 5 terms. |
| 5. A descending sequence has a common difference of 3, and a 2nd term of 14. Write out the first 5 terms. | 6. An ascending sequence has a common difference of 7, and a 4th term of 29. Write out the first 5 terms. |
| 7. A descending sequence has a common difference of 6, and a 3rd term of 24. Write out the first 5 terms. | 8. An ascending sequence has a common difference of 4, and a 5th term of 25. Write out the first 5 terms. |
| 9. A descending sequence has a common difference of 5, and a 4th term of 15. Write out the first 5 terms. | 10. An ascending sequence has a common difference of 8, and a 2nd term of 12. Write out the first 5 terms. |

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| <p>11. A descending sequence has a common difference of 9, and a 1st term of 45. Write out the first 5 terms.</p> <p>13. A descending sequence has a common difference of 7, and a 5th term of 7. Write out the first 5 terms.</p> <p>15. A descending sequence has a common difference of 10, and a 2nd term of 40. Write out the first 5 terms.</p> <p>17. A descending sequence has a common difference of 12, and a 3rd term of 36. Write out the first 5 terms.</p> <p>19. A descending sequence has a common difference of 14, and a 1st term of 70. Write out the first 5 terms.</p> | <p>12. An ascending sequence has a common difference of 11, and a 3rd term of 33. Write out the first 5 terms.</p> <p>14. An ascending sequence has a common difference of 13, and a 4th term of 52. Write out the first 5 terms.</p> <p>16. An ascending sequence has a common difference of 15, and a 5th term of 75. Write out the first 5 terms.</p> <p>18. An ascending sequence has a common difference of 17, and a 4th term of 68. Write out the first 5 terms.</p> <p>20. An ascending sequence has a common difference of 19, and a 2nd term of 38. Write out the first 5 terms.</p> |
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MASTER QUESTIONS



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- M1.** A theatre has seating arranged in rows where each row has 4 more seats than the previous row. If the 3rd row has 23 seats, how many seats are in the first 5 rows?
- M2.** A savings account decreases by £12.50 each month due to regular withdrawals. If the balance was £187.50 after 4 months, what were the balances for the first 5 months?
- M3.** The height of a plant increases by 3.2cm each week. If it measured 25.6cm in the 4th week, what were its heights in the first 5 weeks?

- M4.** A temperature drops by 2.5°C each hour. If it reads 17.5°C after 3 hours, what were the temperatures for the first 5 hours?
- M5.** A car's value depreciates by £850 each year. If its value was £12,750 after 2 years, what were its values for the first 5 years?