FINDING THE NEXT TERM

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

MAIN QUESTIONS

90, 87, 84, 81, 78

29.

1.	2, 5, 8, 11, 14	2.	7, 11, 15, 19, 23
3.	-3, 1, 5, 9, 13	4.	12, 9, 6, 3, 0
5.	0.5, 1.5, 2.5, 3.5, 4.5	6.	100, 95, 90, 85, 80
7.	-10, -6, -2, 2, 6	8.	1.2, 2.4, 3.6, 4.8, 6.0
9.	17, 14, 11, 8, 5	10.	-15, -12, -9, -6, -3
11.	3.25, 4.75, 6.25, 7.75, 9.25	12.	42, 39, 36, 33, 30
13.	-8.5, -6.0, -3.5, -1.0, 1.5	14.	1000, 998, 996, 994, 992
15.	0, -2.5, -5, -7.5, -10	16.	7, 10, 13, 16, 19
17.	-20, -16, -12, -8, -4	18.	2.1, 3.4, 4.7, 6.0, 7.3
19.	50, 47, 44, 41, 38	20.	-1, 0.5, 2, 3.5, 5
21.	18, 15.5, 13, 10.5, 8	22.	-100, -95, -90, -85, -80
23.	0.8, 1.6, 2.4, 3.2, 4.0	24.	75, 70, 65, 60, 55
25.	-2.2, -1.1, 0, 1.1, 2.2	26.	33, 30, 27, 24, 21
27.	-50, -45, -40, -35, -30	28.	1.75, 2.5, 3.25, 4.0, 4.75

-0.5, 0, 0.5, 1.0, 1.5

30.

MASTER QUESTIONS



- M1. A staircase has steps increasing by 3cm in height. If the first five steps are 15cm, 18cm, 21cm, 24cm, and 27cm tall, how tall is the sixth step?
- M2. A train departs stations at intervals following a pattern: 09:15, 09:27, 09:39, 09:51, 10:03. When is the next departure?
- M3. A plant grows 2.5cm each week. After five weeks it measures 8cm, 10.5cm, 13cm, 15.5cm, and 18cm. What will its height be next week?
- M4. A savings account gains £12.50 interest monthly. The balances for five months are £250, £262.50, £275, £287.50, and £300. What will the balance be next month?
- M5. A temperature drops by 1.8°C each hour. Readings at five hours are 12°C, 10.2°C, 8.4°C, 6.6°C, and 4.8°C. What will it read next hour?
- M6. A car's fuel consumption decreases by 0.3 litres per 100km each service. After five services it uses 9.5, 9.2, 8.9, 8.6, and 8.3 litres. What will it use after the next service?
- M7. A runner improves her time by 4 seconds each race. Her times for five races are 65s, 61s, 57s, 53s, and 49s. What will her time be in the next race?
- M8. A company's profits increase by £850 quarterly. For five quarters they are £5000, £5850, £6700, £7550, and £8400. What are the expected profits next quarter?
- M9. A water tank loses 12.5 litres per hour. Levels at five hours are 200L, 187.5L, 175L, 162.5L, and 150L. What will the level be next hour?
- M10. A book club reads 15 more pages each meeting. They read 40, 55, 70, 85, and 100 pages over five meetings. How many will they read next meeting?