



11+ Mixed Reasoning Mock — Higher Ability

**Suitable for GL, Independent Schools, and
Grammar School Preparation**

SECTION A — Number & Logic Reasoning (1–5)

1. A number is doubled, then 9 is added. The final result is 41. What was the original number?

2. Which number is 3 less than half of 50?

3. A number is increased by 25% to become 72. What was the original number?

4. What is the next number in the sequence? 7, 11, 16, 22, 29, ____

5. A number is multiplied by 6 and then divided by 3. The final answer is 18. What was the original number?

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SECTION B — Multi-Step Word Problems (6–10)

6. A shop sells 4 pencils for £1.20. How much do 10 pencils cost?

7. A box contains 96 chocolates. $\frac{3}{8}$ are eaten. How many chocolates remain?

8. A student reads 45 pages on Monday and 38 pages on Tuesday. The book has 200 pages. How many pages are left?

9. A bag has red and blue counters in the ratio 5:3. If there are 40 counters in total, how many are blue?

10. A train travels 120 km in 1.5 hours. What is its speed per hour?

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SECTION C — Pattern & Sequence Reasoning (11–15)

11. What is the missing number? 4, 12, 36, __, 324

12. Find the next number: 2, 5, 11, 23, 47, __

13. A pattern increases by +6, then +8, then +10, then +12. Start: 15 → 21 → 29
→ 39 → 51 → __

14. What is the missing number? 3, 9, 27, __, 243

15. A sequence doubles each time and then subtracts 3: 5, 7, 11, 19, __

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SECTION D — Higher-Ability Reasoning (16–20)

16. A number is $\frac{2}{3}$ of 54. Then 8 is added. What is the final result?

17. A rectangle has a perimeter of 50 cm. The length is 15 cm. What is the width?

18. A number is divided by 4, then increased by 17, giving 32. What was the original number?

19. Three consecutive even numbers add up to 66. What is the largest number?

20. A number is multiplied by 9, then reduced by 45, giving 63. What was the original number?

ANSWERS

Question Numbers	Answers	Question Numbers	Answers
1	16	11	108
2	22	12	95
3	57.6	13	65
4	37	14	81
5	9	15	35
6	£3.00	16	44
7	60	17	10 cm
8	117	18	60
9	15	19	24
10	24080 km/h	20	12