



11+ GL-Style Maths Practice Paper 1

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This is original JDScience practice. It is independent of, and not affiliated with, GL Assessment, CEM, CSSE, Bond, CGP or any other publisher or test provider. Work without a calculator. Suggested time 50 minutes. Try every question. If you are stuck, move on and return later. There is one mark for each question unless shown otherwise.

Suggested time: 50 minutes · **Questions:** 40 questions

SECTION A — ARITHMETIC

1. Section A — Arithmetic. Work out $58 + 247$.

[1]

2. Work out $804 - 369$.

[1]

3. Work out 36×14 .

[1]

4. Work out $576 \div 16$.

[1]

5. Find the value of $7^2 - 3^3$.

[1]

6. Work out $4 \times (9 + 6)$.

[1]

7. Work out $18 + 12 \div 3 \times 2$.

[1]

8. Work out $2.75 + 1.48$.

[1]

9. Work out $9.6 \div 0.3$.

[1]

10. Work out $-12 + 19$.

[1]

SECTION B — FRACTIONS, DECIMALS AND PERCENTAGES

11. Section B — Fractions, decimals and percentages. Work out $\frac{3}{4} + \frac{1}{8}$. Give the answer in its simplest form.

[1]

12. Find $\frac{5}{6}$ of 42.

[1]

13. Write 0.45 as a percentage. [1]
14. Write $\frac{3}{5}$ as a decimal. [1]
15. Find 25% of 84. [1]
16. Increase 40 by 15%. [1]
17. A jacket costs £64. In a sale it is reduced by $\frac{1}{4}$. What is the sale price? [1]

SECTION C — RATIO AND PROPORTION

18. Section C — Ratio and proportion. Simplify the ratio 12 : 18. [1]
19. Share £48 in the ratio 3 : 5. [1]
20. Three identical cakes cost £4.50. How much do seven of the same cakes cost? [1]
21. A recipe for 8 people uses 600 g of flour. How much flour is needed for 6 people? [1]

SECTION D — WORD PROBLEMS AND MEASURES

22. Section D — Word problems and measures. A train leaves at 09:35. The journey lasts 1 hour 50 minutes. At what time does it arrive? [1]
23. Write 2.5 kg in grams. [1]
24. A rectangle is 8 cm long and 5 cm wide. Find its perimeter and its area. [1]
25. Convert 3.2 m into centimetres. [1]
26. A cuboid measures 4 cm by 3 cm by 5 cm. What is its volume? [1]
27. A car travels 90 km in 1.5 hours at a steady speed. What is its speed in km/h? [1]
28. There are 30 sweets in a bag. $\frac{2}{5}$ of them are eaten. How many sweets are left? [1]
29. Five coaches each have 48 seats. 17 seats are empty. How many passengers are there? [1]

SECTION E — GEOMETRY

30. Section E — Geometry. Two angles in a triangle are 50° and 70° . What is the third angle? [1]
31. A regular hexagon has perimeter 54 cm. What is the length of one side? [1]
32. Point P is (3, 2). What are the coordinates of P after a reflection in the x-axis? [1]

33. How many faces does a triangular prism have?

[1]

SECTION F — DATA HANDLING

34. Section F — Data handling. Find the mean of 4, 9, 11 and 16.

[1]

35. Find the median of 3, 8, 8, 12, 20.

[1]

36. The range of a set of masses is 14 kg. The smallest mass is 9 kg. What is the largest mass?

[1]

37. A fair six-sided dice is rolled. What is the probability of an even score? Give a fraction in its simplest form.

[1]

38. Club members: Monday 12, Tuesday 9, Wednesday 15. What is the mean number of members per day?

[1]

SECTION G — PROBLEM SOLVING

39. Section G — Problem solving. A number is multiplied by 8. Then 11 is added. The result is 59. What was the number?

[1]

40. Write 60 as a product of prime factors. Use index notation.

[1]