
Year 9 End-of-Year Maths

Paper 01 | KS3 | 50 marks

Name: _____ Date: _____

Suggested time: 60 minutes. Total marks: 50.

Answer all 30 questions. No calculator. Show your working.

Questions 1-10: 1 mark each. Questions 11-30: 2 marks each.

These original practice papers sample the curriculum; they are not official national tests.

Topics and difficulty become more demanding through the paper.

Tutor: use alongside classwork and adapt to the topics already taught.

Year 9 End-of-Year Maths

Paper 01 | KS3 | 50 marks

Name: _____ Date: _____

1. Calculate $-3 + 10$. [1 mark]

2. Calculate $3 - 7$. [1 mark]

3. Calculate $3 + 4 \times 4$. [1 mark]

4. Simplify $x^3 \times x^3 \div x^2$, for non-zero x . [1 mark]

Year 9 End-of-Year Maths

Paper 01 | KS3 | 50 marks

Name: _____ Date: _____

5. Write 36 as a product of prime factors. [1 mark]

6. Write 1320000 in standard form. [1 mark]

7. Calculate $\frac{2}{4} + \frac{1}{8}$. [1 mark]

8. Calculate $\frac{3}{4} \times \frac{3}{5}$. [1 mark]

Year 9 End-of-Year Maths

Paper 01 | KS3 | 50 marks

Name: _____ Date: _____

9. Calculate 1.27×4 . [1 mark]

10. Find 25% of 132. [1 mark]

11. A coat costs GBP 132. Its price is reduced by 20%. Find the new price. [2 marks]

12. Share 660 in the ratio 2:3. [2 marks]

Year 9 End-of-Year Maths

Paper 01 | KS3 | 50 marks

Name: _____ Date: _____

13. 3 identical notebooks cost GBP 6. Find the cost of 4 notebooks. [2 marks]

14. Simplify $3x + 4x - 2x$. [2 marks]

15. Factorise $x^2 + 7x + 12$. [2 marks]

16. Solve simultaneously $x + y = 7$ and $2x + y = 10$. [2 marks]

Year 9 End-of-Year Maths

Paper 01 | KS3 | 50 marks

Name: _____ Date: _____

17. A sequence begins 4, 7, 10, 13. Find its n th-term rule and 20th term. [2 marks]

18. Rearrange $y = 3x - 4$ to make x the subject. [2 marks]

19. A regular polygon has 6 sides. Find each exterior angle as an exact value. [2 marks]

20. A circle has radius 3 cm. Find its circumference and area in terms of π . [2 marks]

Year 9 End-of-Year Maths

Paper 01 | KS3 | 50 marks

Name: _____ Date: _____

21. A parallelogram has base 6 cm and perpendicular height 4 cm. Find its area. [2 marks]

22. A right-angled triangle has perpendicular sides 9 cm and 12 cm. Find its hypotenuse. [2 marks]

23. Translate $(-3, 4)$ by 6 units right and 6 units down. [2 marks]

24. A shape is enlarged by scale factor 3 about the origin. Where does $(3, -4)$ map to? How does its area change? [2 marks]

Year 9 End-of-Year Maths

Paper 01 | KS3 | 50 marks

Name: _____ Date: _____

25. Find the mean, median and range of 1, 3, 5, 7, 9. [2 marks]

26. A bag has 3 red and 4 blue counters. Find $P(\text{red})$ for one random draw. [2 marks]

27. A bag has 3 red and 4 blue counters. Two are drawn without replacement. Find $P(\text{both red})$. [2 marks]

28. A car travels 9 km in 3 minutes. Find its average speed in km/h. [2 marks]

Year 9 End-of-Year Maths

Paper 01 | KS3 | 50 marks

Name: _____ Date: _____

29. A club sells 3 adult tickets at GBP 8 and 4 child tickets at GBP 5. Costs are GBP 18. Find the profit.
[2 marks]

30. A rectangle has width 3 cm and length 4 cm. Both dimensions are doubled. Explain how its area changes. Find the new area. [2 marks]
