
Year 9 End-of-Year Maths

Paper 09 | 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 09 | KS3 | 50 marks

Name: _____ Date: _____

1. Calculate $-11 + 18$. [1 mark]

2. Calculate $11 - 23$. [1 mark]

3. Calculate $11 + 12 \times 4$. [1 mark]

4. Simplify $x^{11} \times x^3 / x^2$, for non-zero x . [1 mark]

Year 9 End-of-Year Maths

Paper 09 | KS3 | 50 marks

Name: _____ Date: _____

5. Write 132 as a product of prime factors. [1 mark]

6. Write 2280000 in standard form. [1 mark]

7. Calculate $\frac{2}{12} + \frac{1}{24}$. [1 mark]

8. Calculate $\frac{11}{12} \times \frac{3}{13}$. [1 mark]

Year 9 End-of-Year Maths

Paper 09 | KS3 | 50 marks

Name: _____ Date: _____

9. Calculate 1.83×4 . [1 mark]

10. Find 25% of 228. [1 mark]

11. A coat costs GBP 228. Its price is reduced by 20%. Find the new price. [2 marks]

12. Share 1140 in the ratio 2:3. [2 marks]

Year 9 End-of-Year Maths

Paper 09 | KS3 | 50 marks

Name: _____ Date: _____

13. 11 identical notebooks cost GBP 22. Find the cost of 12 notebooks. [2 marks]

14. Simplify $11x + 12x - 2x$. [2 marks]

15. Factorise $x^2 + 23x + 132$. [2 marks]

16. Solve simultaneously $x + y = 23$ and $2x + y = 34$. [2 marks]

Year 9 End-of-Year Maths

Paper 09 | KS3 | 50 marks

Name: _____ Date: _____

17. A sequence begins 12, 23, 34, 45. Find its n th-term rule and 20th term. [2 marks]

18. Rearrange $y = 11x - 12$ to make x the subject. [2 marks]

19. A regular polygon has 14 sides. Find each exterior angle as an exact value. [2 marks]

20. A circle has radius 11 cm. Find its circumference and area in terms of π . [2 marks]

Year 9 End-of-Year Maths

Paper 09 | KS3 | 50 marks

Name: _____ Date: _____

21. A parallelogram has base 22 cm and perpendicular height 12 cm. Find its area. [2 marks]

22. A right-angled triangle has perpendicular sides 33 cm and 44 cm. Find its hypotenuse. [2 marks]

23. Translate $(-11, 12)$ by 14 units right and 14 units down. [2 marks]

24. A shape is enlarged by scale factor 3 about the origin. Where does $(11, -12)$ map to? How does its area change? [2 marks]

Year 9 End-of-Year Maths

Paper 09 | KS3 | 50 marks

Name: _____ Date: _____

25. Find the mean, median and range of 9, 11, 13, 15, 17. [2 marks]

26. A bag has 11 red and 12 blue counters. Find $P(\text{red})$ for one random draw. [2 marks]

27. A bag has 11 red and 12 blue counters. Two are drawn without replacement. Find $P(\text{both red})$. [2 marks]

28. A car travels 33 km in 11 minutes. Find its average speed in km/h. [2 marks]

Year 9 End-of-Year Maths

Paper 09 | KS3 | 50 marks

Name: _____ Date: _____

29. A club sells 11 adult tickets at GBP 8 and 12 child tickets at GBP 5. Costs are GBP 58. Find the profit. [2 marks]

30. A rectangle has width 11 cm and length 12 cm. Both dimensions are doubled. Explain how its area changes. Find the new area. [2 marks]
