
Year 9 End-of-Year Maths

Paper 07 | 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.

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1. Calculate $-9 + 16$. [1 mark]

2. Calculate $9 - 19$. [1 mark]

3. Calculate $9 + 10 \times 4$. [1 mark]

4. Simplify $x^9 \times x^3 \div x^2$, for non-zero x . [1 mark]

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5. Write 108 as a product of prime factors. [1 mark]

6. Write 2040000 in standard form. [1 mark]

7. Calculate $\frac{2}{10} + \frac{1}{20}$. [1 mark]

8. Calculate $\frac{9}{10} \times \frac{3}{11}$. [1 mark]

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9. Calculate 1.69×4 . [1 mark]

10. Find 25% of 204. [1 mark]

11. A coat costs GBP 204. Its price is reduced by 20%. Find the new price. [2 marks]

12. Share 1020 in the ratio 2:3. [2 marks]

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13. 9 identical notebooks cost GBP 18. Find the cost of 10 notebooks. [2 marks]

14. Simplify $9x + 10x - 2x$. [2 marks]

15. Factorise $x^2 + 19x + 90$. [2 marks]

16. Solve simultaneously $x + y = 19$ and $2x + y = 28$. [2 marks]

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17. A sequence begins 10, 19, 28, 37. Find its n th-term rule and 20th term. [2 marks]

18. Rearrange $y = 9x - 10$ to make x the subject. [2 marks]

19. A regular polygon has 12 sides. Find each exterior angle as an exact value. [2 marks]

20. A circle has radius 9 cm. Find its circumference and area in terms of π . [2 marks]

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21. A parallelogram has base 18 cm and perpendicular height 10 cm. Find its area. [2 marks]

22. A right-angled triangle has perpendicular sides 27 cm and 36 cm. Find its hypotenuse. [2 marks]

23. Translate $(-9, 10)$ by 12 units right and 12 units down. [2 marks]

24. A shape is enlarged by scale factor 3 about the origin. Where does $(9, -10)$ map to? How does its area change? [2 marks]

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25. Find the mean, median and range of 7, 9, 11, 13, 15. [2 marks]

26. A bag has 9 red and 10 blue counters. Find $P(\text{red})$ for one random draw. [2 marks]

27. A bag has 9 red and 10 blue counters. Two are drawn without replacement. Find $P(\text{both red})$. [2 marks]

28. A car travels 27 km in 9 minutes. Find its average speed in km/h. [2 marks]

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29. A club sells 9 adult tickets at GBP 8 and 10 child tickets at GBP 5. Costs are GBP 48. Find the profit. [2 marks]

30. A rectangle has width 9 cm and length 10 cm. Both dimensions are doubled. Explain how its area changes. Find the new area. [2 marks]
