
Year 9 End-of-Year Maths

Paper 02 | 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 $-4 + 11$. [1 mark]

2. Calculate $4 - 9$. [1 mark]

3. Calculate $4 + 5 \times 4$. [1 mark]

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

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5. Write 48 as a product of prime factors. [1 mark]

6. Write 1440000 in standard form. [1 mark]

7. Calculate $\frac{2}{5} + \frac{1}{10}$. [1 mark]

8. Calculate $\frac{4}{5} \times \frac{3}{6}$. [1 mark]

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9. Calculate 1.34×4 . [1 mark]

10. Find 25% of 144. [1 mark]

11. A coat costs GBP 144. Its price is reduced by 20%. Find the new price. [2 marks]

12. Share 720 in the ratio 2:3. [2 marks]

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13. 4 identical notebooks cost GBP 8. Find the cost of 5 notebooks. [2 marks]

14. Simplify $4x + 5x - 2x$. [2 marks]

15. Factorise $x^2 + 9x + 20$. [2 marks]

16. Solve simultaneously $x + y = 9$ and $2x + y = 13$. [2 marks]

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17. A sequence begins 5, 9, 13, 17. Find its n th-term rule and 20th term. [2 marks]

18. Rearrange $y = 4x - 5$ to make x the subject. [2 marks]

19. A regular polygon has 7 sides. Find each exterior angle as an exact value. [2 marks]

20. A circle has radius 4 cm. Find its circumference and area in terms of π . [2 marks]

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21. A parallelogram has base 8 cm and perpendicular height 5 cm. Find its area. [2 marks]

22. A right-angled triangle has perpendicular sides 12 cm and 16 cm. Find its hypotenuse. [2 marks]

23. Translate $(-4, 5)$ by 7 units right and 7 units down. [2 marks]

24. A shape is enlarged by scale factor 3 about the origin. Where does $(4, -5)$ map to? How does its area change? [2 marks]

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25. Find the mean, median and range of 2, 4, 6, 8, 10. [2 marks]

26. A bag has 4 red and 5 blue counters. Find $P(\text{red})$ for one random draw. [2 marks]

27. A bag has 4 red and 5 blue counters. Two are drawn without replacement. Find $P(\text{both red})$. [2 marks]

28. A car travels 12 km in 4 minutes. Find its average speed in km/h. [2 marks]

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29. A club sells 4 adult tickets at GBP 8 and 5 child tickets at GBP 5. Costs are GBP 23. Find the profit.
[2 marks]

30. A rectangle has width 4 cm and length 5 cm. Both dimensions are doubled. Explain how its area changes. Find the new area. [2 marks]
