
Year 9 End-of-Year Maths

Paper 10 | 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 $-12 + 19$. [1 mark]

2. Calculate $12 - 25$. [1 mark]

3. Calculate $12 + 13 \times 4$. [1 mark]

4. Simplify $x^{12} \times x^3 / x^2$, for non-zero x . [1 mark]

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5. Write 144 as a product of prime factors. [1 mark]

6. Write 2400000 in standard form. [1 mark]

7. Calculate $\frac{2}{13} + \frac{1}{26}$. [1 mark]

8. Calculate $\frac{12}{13} \times \frac{3}{14}$. [1 mark]

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9. Calculate 1.9×4 . [1 mark]

10. Find 25% of 240. [1 mark]

11. A coat costs GBP 240. Its price is reduced by 20%. Find the new price. [2 marks]

12. Share 1200 in the ratio 2:3. [2 marks]

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13. 12 identical notebooks cost GBP 24. Find the cost of 13 notebooks. [2 marks]

14. Simplify $12x + 13x - 2x$. [2 marks]

15. Factorise $x^2 + 25x + 156$. [2 marks]

16. Solve simultaneously $x + y = 25$ and $2x + y = 37$. [2 marks]

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17. A sequence begins 13, 25, 37, 49. Find its n th-term rule and 20th term. [2 marks]

18. Rearrange $y = 12x - 13$ to make x the subject. [2 marks]

19. A regular polygon has 15 sides. Find each exterior angle as an exact value. [2 marks]

20. A circle has radius 12 cm. Find its circumference and area in terms of π . [2 marks]

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21. A parallelogram has base 24 cm and perpendicular height 13 cm. Find its area. [2 marks]

22. A right-angled triangle has perpendicular sides 36 cm and 48 cm. Find its hypotenuse. [2 marks]

23. Translate $(-12, 13)$ by 15 units right and 15 units down. [2 marks]

24. A shape is enlarged by scale factor 3 about the origin. Where does $(12, -13)$ map to? How does its area change? [2 marks]

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25. Find the mean, median and range of 10, 12, 14, 16, 18. [2 marks]

26. A bag has 12 red and 13 blue counters. Find $P(\text{red})$ for one random draw. [2 marks]

27. A bag has 12 red and 13 blue counters. Two are drawn without replacement. Find $P(\text{both red})$. [2 marks]

28. A car travels 36 km in 12 minutes. Find its average speed in km/h. [2 marks]

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29. A club sells 12 adult tickets at GBP 8 and 13 child tickets at GBP 5. Costs are GBP 63. Find the profit. [2 marks]

30. A rectangle has width 12 cm and length 13 cm. Both dimensions are doubled. Explain how its area changes. Find the new area. [2 marks]
