
Year 9 End-of-Year Maths

Paper 03 | 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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Paper 03 | KS3 | 50 marks

Name: _____ Date: _____

1. Calculate $-5 + 12$. [1 mark]

2. Calculate $5 - 11$. [1 mark]

3. Calculate $5 + 6 \times 4$. [1 mark]

4. Simplify $x^5 \times x^3 \div x^2$, for non-zero x . [1 mark]

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Paper 03 | KS3 | 50 marks

Name: _____ Date: _____

5. Write 60 as a product of prime factors. [1 mark]

6. Write 1560000 in standard form. [1 mark]

7. Calculate $\frac{2}{6} + \frac{1}{12}$. [1 mark]

8. Calculate $\frac{5}{6} \times \frac{3}{7}$. [1 mark]

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Paper 03 | KS3 | 50 marks

Name: _____ Date: _____

9. Calculate 1.41×4 . [1 mark]

10. Find 25% of 156. [1 mark]

11. A coat costs GBP 156. Its price is reduced by 20%. Find the new price. [2 marks]

12. Share 780 in the ratio 2:3. [2 marks]

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13. 5 identical notebooks cost GBP 10. Find the cost of 6 notebooks. [2 marks]

14. Simplify $5x + 6x - 2x$. [2 marks]

15. Factorise $x^2 + 11x + 30$. [2 marks]

16. Solve simultaneously $x + y = 11$ and $2x + y = 16$. [2 marks]

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17. A sequence begins 6, 11, 16, 21. Find its n th-term rule and 20th term. [2 marks]

18. Rearrange $y = 5x - 6$ to make x the subject. [2 marks]

19. A regular polygon has 8 sides. Find each exterior angle as an exact value. [2 marks]

20. A circle has radius 5 cm. Find its circumference and area in terms of π . [2 marks]

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21. A parallelogram has base 10 cm and perpendicular height 6 cm. Find its area. [2 marks]

22. A right-angled triangle has perpendicular sides 15 cm and 20 cm. Find its hypotenuse. [2 marks]

23. Translate $(-5, 6)$ by 8 units right and 8 units down. [2 marks]

24. A shape is enlarged by scale factor 3 about the origin. Where does $(5, -6)$ map to? How does its area change? [2 marks]

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25. Find the mean, median and range of 3, 5, 7, 9, 11. [2 marks]

26. A bag has 5 red and 6 blue counters. Find $P(\text{red})$ for one random draw. [2 marks]

27. A bag has 5 red and 6 blue counters. Two are drawn without replacement. Find $P(\text{both red})$. [2 marks]

28. A car travels 15 km in 5 minutes. Find its average speed in km/h. [2 marks]

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29. A club sells 5 adult tickets at GBP 8 and 6 child tickets at GBP 5. Costs are GBP 28. Find the profit.
[2 marks]

30. A rectangle has width 5 cm and length 6 cm. Both dimensions are doubled. Explain how its area changes. Find the new area. [2 marks]
