
Year 7 End-of-Year Maths

Paper 04 | 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 04 | KS3 | 50 marks

Name: _____ Date: _____

1. Calculate $-6 + 13$. [1 mark]

2. Calculate $6 - 13$. [1 mark]

3. Calculate $6 + 7 \times 4$. [1 mark]

4. Calculate $6 \text{ squared} - 7$. [1 mark]

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Paper 04 | KS3 | 50 marks

Name: _____ Date: _____

5. Write 72 as a product of prime factors. [1 mark]

6. Find the highest common factor and lowest common multiple of 36 and 54. [1 mark]

7. Calculate $\frac{2}{7} + \frac{1}{14}$. [1 mark]

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

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Paper 04 | KS3 | 50 marks

Name: _____ Date: _____

9. Calculate 1.48×4 . [1 mark]

10. Find 25% of 168. [1 mark]

11. A coat costs GBP 168. Its price is reduced by 20%. Find the new price. [2 marks]

12. Share 840 in the ratio 2:3. [2 marks]

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Name: _____ Date: _____

13. 6 identical notebooks cost GBP 12. Find the cost of 7 notebooks. [2 marks]

14. Simplify $6x + 7x - 2x$. [2 marks]

15. Expand $6(x + 7)$. [2 marks]

16. Solve $6x + 7 = 55$. [2 marks]

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17. A sequence begins 7, 13, 19, 25. Find its n th-term rule and 20th term. [2 marks]

18. Use $y = 6x - 7$ to find y when $x = -2$. [2 marks]

19. A triangle has angles 34 degrees and 64 degrees. Find its third angle. [2 marks]

20. A rectangle measures 10 cm by 7 cm. Find its perimeter and area. [2 marks]

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21. A parallelogram has base 12 cm and perpendicular height 7 cm. Find its area. [2 marks]

22. A cuboid has dimensions 6 cm, 7 cm and 4 cm. Find its volume. [2 marks]

23. Translate $(-6, 7)$ by 9 units right and 9 units down. [2 marks]

24. Reflect $(6, -7)$ in the y-axis. [2 marks]

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Name: _____ Date: _____

25. Find the mean, median and range of 4, 6, 8, 10, 12. [2 marks]

26. A bag has 6 red and 7 blue counters. Find $P(\text{red})$ for one random draw. [2 marks]

27. A fair spinner has numbers 1 to 12. Find the probability of an even number. [2 marks]

28. A map scale is 1:10000. A path is 6 cm on the map. Find its real length in metres. [2 marks]

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29. A club sells 6 adult tickets at GBP 8 and 7 child tickets at GBP 5. Costs are GBP 33. Find the profit.
[2 marks]

30. A rectangle has width 6 cm and length 7 cm. Both dimensions are doubled. Explain how its area changes. Find the new area. [2 marks]
