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## Year 8 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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Name: \_\_\_\_\_ Date: \_\_\_\_\_

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

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

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

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4. Simplify  $x^6 \times x^3 / x^2$ , for non-zero  $x$ . [1 mark]

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

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

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

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

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9. Calculate  $1.48 \times 4$ . [1 mark]

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

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

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

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

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

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

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16. Solve  $6x + 7 = 5x + 15$ . [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]

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18. Rearrange  $y = 6x - 7$  to make  $x$  the subject. [2 marks]

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

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20. A circle has radius 6 cm. Find its circumference and area in terms of  $\pi$ . [2 marks]

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Name: \_\_\_\_\_ Date: \_\_\_\_\_

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

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

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

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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]

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

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27. A bag has 6 red and 7 blue counters. Two are drawn without replacement. Find  $P(\text{both red})$ . [2 marks]

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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]

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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]

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