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## Year 7 End-of-Year Maths

Paper 01 | 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 01 | KS3 | 50 marks

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

1. Calculate  $-3 + 10$ . [1 mark]

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2. Calculate  $3 - 7$ . [1 mark]

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

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4. Calculate 3 squared - 4. [1 mark]

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5. Write 36 as a product of prime factors. [1 mark]

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6. Find the highest common factor and lowest common multiple of 18 and 27. [1 mark]

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7. Calculate  $\frac{2}{4} + \frac{1}{8}$ . [1 mark]

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

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9. Calculate  $1.27 \times 4$ . [1 mark]

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10. Find 25% of 132. [1 mark]

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11. A coat costs GBP 132. Its price is reduced by 20%. Find the new price. [2 marks]

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12. Share 660 in the ratio 2:3. [2 marks]

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13. 3 identical notebooks cost GBP 6. Find the cost of 4 notebooks. [2 marks]

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14. Simplify  $3x + 4x - 2x$ . [2 marks]

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15. Expand  $3(x + 4)$ . [2 marks]

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16. Solve  $3x + 4 = 19$ . [2 marks]

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17. A sequence begins 4, 7, 10, 13. Find its nth-term rule and 20th term. [2 marks]

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18. Use  $y = 3x - 4$  to find  $y$  when  $x = -2$ . [2 marks]

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19. A triangle has angles 31 degrees and 61 degrees. Find its third angle. [2 marks]

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20. A rectangle measures 7 cm by 4 cm. Find its perimeter and area. [2 marks]

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21. A parallelogram has base 6 cm and perpendicular height 4 cm. Find its area. [2 marks]

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22. A cuboid has dimensions 3 cm, 4 cm and 4 cm. Find its volume. [2 marks]

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23. Translate  $(-3, 4)$  by 6 units right and 6 units down. [2 marks]

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24. Reflect  $(3, -4)$  in the y-axis. [2 marks]

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25. Find the mean, median and range of 1, 3, 5, 7, 9. [2 marks]

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26. A bag has 3 red and 4 blue counters. Find  $P(\text{red})$  for one random draw. [2 marks]

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27. A fair spinner has numbers 1 to 6. Find the probability of an even number. [2 marks]

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28. A map scale is 1:10000. A path is 3 cm on the map. Find its real length in metres. [2 marks]

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29. A club sells 3 adult tickets at GBP 8 and 4 child tickets at GBP 5. Costs are GBP 18. Find the profit.  
[2 marks]

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30. A rectangle has width 3 cm and length 4 cm. Both dimensions are doubled. Explain how its area changes. Find the new area. [2 marks]

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