
Year 8 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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1. Calculate $-3 + 10$. [1 mark]

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

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

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

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

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

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

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

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9. Calculate 1.27×4 . [1 mark]

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

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

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]

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

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

16. Solve $3x + 4 = 2x + 9$. [2 marks]

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

18. Rearrange $y = 3x - 4$ to make x the subject. [2 marks]

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

20. A circle has radius 3 cm. Find its circumference and area in terms of π . [2 marks]

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

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

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

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]

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

27. A bag has 3 red and 4 blue counters. Two are drawn without replacement. Find $P(\text{both red})$. [2 marks]

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]

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]
