
Year 8 End-of-Year Maths

Paper 09 | 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 $-11 + 18$. [1 mark]

2. Calculate $11 - 23$. [1 mark]

3. Calculate $11 + 12 \times 4$. [1 mark]

4. Simplify $x^{11} \times x^3 / x^2$, for non-zero x . [1 mark]

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5. Write 132 as a product of prime factors. [1 mark]

6. Find the highest common factor and lowest common multiple of 66 and 99. [1 mark]

7. Calculate $\frac{2}{12} + \frac{1}{24}$. [1 mark]

8. Calculate $\frac{11}{12} \times \frac{3}{13}$. [1 mark]

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9. Calculate 1.83×4 . [1 mark]

10. Find 25% of 228. [1 mark]

11. A coat costs GBP 228. Its price is reduced by 20%. Find the new price. [2 marks]

12. Share 1140 in the ratio 2:3. [2 marks]

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13. 11 identical notebooks cost GBP 22. Find the cost of 12 notebooks. [2 marks]

14. Simplify $11x + 12x - 2x$. [2 marks]

15. Expand and simplify $(x + 11)(x + 12)$. [2 marks]

16. Solve $11x + 12 = 10x + 25$. [2 marks]

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17. A sequence begins 12, 23, 34, 45. Find its n th-term rule and 20th term. [2 marks]

18. Rearrange $y = 11x - 12$ to make x the subject. [2 marks]

19. A triangle has angles 39 degrees and 69 degrees. Find its third angle. [2 marks]

20. A circle has radius 11 cm. Find its circumference and area in terms of π . [2 marks]

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21. A parallelogram has base 22 cm and perpendicular height 12 cm. Find its area. [2 marks]

22. A cuboid has dimensions 11 cm, 12 cm and 4 cm. Find its volume. [2 marks]

23. Translate $(-11, 12)$ by 14 units right and 14 units down. [2 marks]

24. Reflect $(11, -12)$ in the y-axis. [2 marks]

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25. Find the mean, median and range of 9, 11, 13, 15, 17. [2 marks]

26. A bag has 11 red and 12 blue counters. Find $P(\text{red})$ for one random draw. [2 marks]

27. A bag has 11 red and 12 blue counters. Two are drawn without replacement. Find $P(\text{both red})$. [2 marks]

28. A map scale is 1:10000. A path is 11 cm on the map. Find its real length in metres. [2 marks]

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29. A club sells 11 adult tickets at GBP 8 and 12 child tickets at GBP 5. Costs are GBP 58. Find the profit. [2 marks]

30. A rectangle has width 11 cm and length 12 cm. Both dimensions are doubled. Explain how its area changes. Find the new area. [2 marks]
