
Year 8 End-of-Year Maths

Paper 06 | 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 $-8 + 15$. [1 mark]

2. Calculate $8 - 17$. [1 mark]

3. Calculate $8 + 9 \times 4$. [1 mark]

4. Simplify $x^8 \times x^3 / x^2$, for non-zero x . [1 mark]

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Paper 06 | KS3 | 50 marks

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5. Write 96 as a product of prime factors. [1 mark]

6. Find the highest common factor and lowest common multiple of 48 and 72. [1 mark]

7. Calculate $\frac{2}{9} + \frac{1}{18}$. [1 mark]

8. Calculate $\frac{8}{9} \times \frac{3}{10}$. [1 mark]

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9. Calculate 1.62×4 . [1 mark]

10. Find 25% of 192. [1 mark]

11. A coat costs GBP 192. Its price is reduced by 20%. Find the new price. [2 marks]

12. Share 960 in the ratio 2:3. [2 marks]

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13. 8 identical notebooks cost GBP 16. Find the cost of 9 notebooks. [2 marks]

14. Simplify $8x + 9x - 2x$. [2 marks]

15. Expand and simplify $(x + 8)(x + 9)$. [2 marks]

16. Solve $8x + 9 = 7x + 19$. [2 marks]

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17. A sequence begins 9, 17, 25, 33. Find its n th-term rule and 20th term. [2 marks]

18. Rearrange $y = 8x - 9$ to make x the subject. [2 marks]

19. A triangle has angles 36 degrees and 66 degrees. Find its third angle. [2 marks]

20. A circle has radius 8 cm. Find its circumference and area in terms of π . [2 marks]

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21. A parallelogram has base 16 cm and perpendicular height 9 cm. Find its area. [2 marks]

22. A cuboid has dimensions 8 cm, 9 cm and 4 cm. Find its volume. [2 marks]

23. Translate $(-8, 9)$ by 11 units right and 11 units down. [2 marks]

24. Reflect $(8, -9)$ in the y-axis. [2 marks]

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25. Find the mean, median and range of 6, 8, 10, 12, 14. [2 marks]

26. A bag has 8 red and 9 blue counters. Find $P(\text{red})$ for one random draw. [2 marks]

27. A bag has 8 red and 9 blue counters. Two are drawn without replacement. Find $P(\text{both red})$. [2 marks]

28. A map scale is 1:10000. A path is 8 cm on the map. Find its real length in metres. [2 marks]

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29. A club sells 8 adult tickets at GBP 8 and 9 child tickets at GBP 5. Costs are GBP 43. Find the profit.
[2 marks]

30. A rectangle has width 8 cm and length 9 cm. Both dimensions are doubled. Explain how its area changes. Find the new area. [2 marks]
