
Year 8 End-of-Year Maths

Paper 03 | 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 $-5 + 12$. [1 mark]

2. Calculate $5 - 11$. [1 mark]

3. Calculate $5 + 6 \times 4$. [1 mark]

4. Simplify $x^5 \times x^3 / x^2$, for non-zero x . [1 mark]

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5. Write 60 as a product of prime factors. [1 mark]

6. Find the highest common factor and lowest common multiple of 30 and 45. [1 mark]

7. Calculate $\frac{2}{6} + \frac{1}{12}$. [1 mark]

8. Calculate $\frac{5}{6} \times \frac{3}{7}$. [1 mark]

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Name: _____ Date: _____

9. Calculate 1.41×4 . [1 mark]

10. Find 25% of 156. [1 mark]

11. A coat costs GBP 156. Its price is reduced by 20%. Find the new price. [2 marks]

12. Share 780 in the ratio 2:3. [2 marks]

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13. 5 identical notebooks cost GBP 10. Find the cost of 6 notebooks. [2 marks]

14. Simplify $5x + 6x - 2x$. [2 marks]

15. Expand and simplify $(x + 5)(x + 6)$. [2 marks]

16. Solve $5x + 6 = 4x + 13$. [2 marks]

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17. A sequence begins 6, 11, 16, 21. Find its n th-term rule and 20th term. [2 marks]

18. Rearrange $y = 5x - 6$ to make x the subject. [2 marks]

19. A triangle has angles 33 degrees and 63 degrees. Find its third angle. [2 marks]

20. A circle has radius 5 cm. Find its circumference and area in terms of π . [2 marks]

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21. A parallelogram has base 10 cm and perpendicular height 6 cm. Find its area. [2 marks]

22. A cuboid has dimensions 5 cm, 6 cm and 4 cm. Find its volume. [2 marks]

23. Translate $(-5, 6)$ by 8 units right and 8 units down. [2 marks]

24. Reflect $(5, -6)$ in the y-axis. [2 marks]

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25. Find the mean, median and range of 3, 5, 7, 9, 11. [2 marks]

26. A bag has 5 red and 6 blue counters. Find $P(\text{red})$ for one random draw. [2 marks]

27. A bag has 5 red and 6 blue counters. Two are drawn without replacement. Find $P(\text{both red})$. [2 marks]

28. A map scale is 1:10000. A path is 5 cm on the map. Find its real length in metres. [2 marks]

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29. A club sells 5 adult tickets at GBP 8 and 6 child tickets at GBP 5. Costs are GBP 28. Find the profit.
[2 marks]

30. A rectangle has width 5 cm and length 6 cm. Both dimensions are doubled. Explain how its area changes. Find the new area. [2 marks]
