Answer keys: MK 2023, Level 6 (Grades 11-12)

1. **C**   What is the simplified representation ...
2. **C**   Julia rolls 5 dice at ...
3. **E**   A cylindrical tin is 15 ...
4. **D**   Let A be a 2023-digit ...
5. **D**   Emma should colour in the ...
6. **B**   We call a positive integer ...
7. **E**   What is the units digit ...
8. **D**   What is the value of ...
9. **D**   23 animals are sitting in ...
10. **B**   A square with area 84 ...
11. **E**   The numbers from 1 to ...
12. **D**   Two equilateral triangles of different ...
13. **B**   Consider the five numbers $a_1,$ ...
14. **C**   In a three-sided pyramid all ...
15. **B**   How many pairs of integers ...
16. **A**   The number 5^{5^6} is to ...
17. **D**   Leon has drawn a closed ...
18. **A**   For each positive integer n ...
19. **E**   The graphs of the functions ...
20. **C**   A pentagon is cut into ...
21. **B**   The diagram shows a spiral ...
22. **C**   How many positive integers divide ...
23. **B**   13 athletes took part in ...
24. **E**   A game marker in the ...
25. **D**   A part of a polynomial ...
26. **A**   The big square shown is ...
27. **E**   What is the biggest common ...
28. **E**   The numbers from 1 to ...
29. **A**   Two identical cylindrical glasses contain ...
30. **C**   The product of six consecutive ...

Useful links

- Math Kangaroo resources: https://boo9.com/resources/math-kangaroo
- Practice online (automated grading) @ https://boo9.com/practice
- View these questions online @ click here
- Playlist (all videos this level): click here