

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, \dots) ...
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

1. Math Kangaroo resources: <https://boo9.com/resources/math-kangaroo>
2. Practice online (automated grading) @ <https://boo9.com/practice>
3. View these questions online @ [click here](#)
4. Video solution (all problems this set): [coming soon ...]
5. Playlist (all videos this level): [click here](#)

