Answer keys: MK 2013, Level 6 (Grades 11-12)

1. **C**   Which of the following numbers ...
2. **C**   The regular eight-sided shape on ...
3. **E**   The surface of a prism ...
4. **D**   The third root of 3^{3^3} ...
5. **C**   The date 2013 is made ...
6. **D**   Let f be a linear ...
7. **E**   We know that the relationship ...
8. **B**   Each of six lone heros ...
9. **E**   Inside the cube lattice pictured ...
10. **D**   If a certain substance melts ...
11. **C**   Ralf has a number of ...
12. **A**   How many positive integers n ...
13. **E**   A circular carpet is placed ...
14. **D**   We are looking at the ...
15. **A**   Amongst the graphs shown below ...
16. **D**   We are considering rectangles which ...
17. **A**   Peter has drawn the graph ...
18. **E**   How many pairs of positive ...
19. **C**   In a box there are ...
20. **E**   In a triangle ABC the ...
21. **A**   How many pairs of integers ...
22. **D**   The function $f : R$ ...
23. **A**   The cube pictured on the ...
24. **E**   How many solutions (x, y) ...
25. **D**   Let $f : N \rightarrow$ ...
26. **C**   On the co-ordinate plane a ...
27. **B**   If you add the first ...
28. **D**   On an island live only ...
29. **E**   Julian wrote an algorithm to ...
30. **B**   Five cars enter a roundabout ...

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