Answer keys: MK 2011, Level 6 (Grades 11-12)

1. **A**   In the picture on the ...
2. **B**   Three racers take part in ...
3. **A**   If \(2^x = 15\) and ...
4. **C**   Jan cannot draw very accurately ...
5. **D**   All four-digit numbers whose digit ...
6. **E**   Given are a regular hexagon ...
7. **C**   A rectangular piece of paper ...
8. **C**   Determine the area of the ...
9. **C**   Andrew wrote down all odd ...
10. **B**   Max and Hugo roll a ...
11. **D**   A rectangle is split into ...
12. **E**   Michael wants to write whole ...
13. **D**   48 children are going on ...
14. **D**   How many graphs of the ...
15. **B**   The rear window wiper of ...
16. **A**   We have three horizontal lines ...
17. **E**   In the (x,y)-plane the co-ordinate ...
18. **D**   The sides AB, BC, CD, ...
19. **B**   Which is the smallest possible ...
20. **B**   The brothers Gerhard and Günther ...
21. **B**   In a drum there are ...
22. **C**   Given are the two arithmetic ...
23. **A**   The function sequence \(f_1(x), f_2(x), ...
24. **A**   In a box there are ...
25. **D**   An airline does not charge ...
26. **A**   Determine the sum of all ...
27. **C**   An archer tries his art ...
28. **D**   Let a, b and c ...
29. **C**   Twenty different positive whole numbers ...
30. **C**   A \(3 \times 3 \times ...

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