

# 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  $(f_1(x), f_2(x), \dots)$  ...
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  $(3 \times 3 \times 3)$  ...

## 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](#)

